Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

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In the Matter of

A National Broadband Plan for Our Future

GN Docket No. 09-51

COMMENTS OF THE FEDERAL TRADE COMMISSION

Introduction

The Federal Trade Commission ("FTC"), which shares jurisdiction over broadband Internet access and related content and applications with the Federal Communications Commission ("FCC"), appreciates this opportunity to contribute to the development of the Nation's Broadband Plan.¹ This comment responds to the FCC's Notice of Inquiry (the "Notice")² and is based on the FTC's extensive competition and consumer protection law enforcement experience involving the Internet as well as the FTC's 2007 Broadband Report.³

Policies that promote competition and consumer protection can foster new and innovative offerings, lower prices, and greater consumer use of those services. This insight applies forcefully to the broadband access and Internet content and applications markets at issue in the Notice.

Regarding the provision of broadband, significant questions exist about the extent to which broadband access markets are competitive.⁴ To evaluate those competitive conditions and to tailor appropriate regulatory policies that could encourage additional competition, the FCC may wish to rely on the competition analysis framework used by the FTC that is contained in the FTC/DoJ Horizontal Merger Guidelines. Consumer protection policy works hand-in-hand with competition

⁴ See generally FTC Broadband Report, *supra* note 3, at 98-105 (discussing the current and future state of broadband competition); FCC, High-Speed Services FOR INTERNET ACCESS: STATUS AS OF JUNE 30, 2008 11, 22, Tables 6 & 16 (2009) ["FCC High-Speed Services Report"], *available at* <u>http://hraunfoss.fcc.gov/edocs_public/attachmatch/DOC-292191A1.pdf;</u> PEW INTERNET & AMERICAN LIFE PROJECT, HOME BROADBAND ADOPTION 2009 (2009) ["Pew Study"], *available at*

¹ The American Recovery and Reinvestment Act of 2009, H.R. 1, 111th Cong. (2009), Pub. L. 111-5 – Tax, Unemployment, Health, State Fiscal Relief, and Other Provisions, Title VI – Broadband Technology Opportunities Program § 6001(k)(1)-(2) (Feb. 17, 2009) ["Recovery Act"].

² Federal Communications Commission, *A National Broadband Plan for Our Future*, Notice of Inquiry ["FCC NOI"], 24 FCC Rcd 4342 (Apr. 8, 2009).

³ FTC STAFF, BROADBAND COMPETITION CONNECTIVITY POLICY (2007) ["FTC Broadband Report"], *available at* <u>http://www.ftc.gov/reports/broadband/v070000report.pdf;</u> Broadband Connectivity Competition Policy workshop, <u>http://www.ftc.gov/opp/workshops/broadband/index.shtml</u>.

http://www.pewinternet.org/~/media//Files/Reports/2009/Home-Broadband-Adoption-2009.pdf.

policy to promote broadband adoption. For example, consumers are likely to make more informed choices when broadband providers make meaningful and timely disclosure of material terms of service. Further, strong data security policies by the providers, which safeguard sensitive consumer information, may ease consumers' privacy concerns and also facilitate their adoption of broadband.

Broadband access and related Internet content and applications markets present both competition and consumer privacy concerns as well. For example, in the provision of content and applications over the Internet, concerns stem from recent technological advances that allow broadband providers to identify the source and content of much of the data they handle, and to manage that data in increasingly sophisticated ways. Using this technology, broadband providers may be able to track a consumer's online activities to deliver targeted advertisements. They also might advantage or disadvantage certain content or applications. These practices have the potential to benefit consumers, but also pose some risks. Accordingly, this comment outlines questions that may lead to useful empirical information regarding whether these practices are occurring and their impact on both consumers and competition.

As described below, the FTC has committed substantial research and law enforcement resources to the Internet, broadband, and consumer privacy.⁵ The FTC pledges continued vigorous law enforcement and consumer education to protect consumers and foster competition in these markets. It welcomes the opportunity to directly assist the FCC as it develops the Broadband Plan.

I. Advancing Consumer Welfare by Promoting Competition and Consumer Protection

The Recovery Act directs the FCC to "analy[ze] the most effective and efficient mechanisms for ensuring broadband access by all people of the United States" and to develop "a plan for the use of broadband infrastructure and services in advancing consumer welfare" and other national

FTC consumer protection actions in the area of broadband and other forms of Internet access include, for example: *FTC v. Cyberspace.com LLC*, 453 F.3d 1196 (9th Cir. 2006); *FTC v. Pricewert LLC* (No. C-09-2407 RMW) (N.D. Cal. 2009); *In the Matter of Am. Online, Inc. & CompuServe Interactive Servs.*, FTC Dkt. No C-4105 (Jan. 28, 2004).

For FTC privacy initiatives see FTC, Privacy Initiatives, http://www.ftc.gov/privacy/index.html.

⁵ The FTC enforces laws prohibiting unfair methods of competition and unfair and deceptive acts or practices in or affecting commerce. 15 U.S.C. § 45(a). The FTC has wide-ranging responsibilities concerning nearly all segments of the economy and is the only federal agency with both competition and consumer protection jurisdiction in broad sectors of the economy. The FTC is well-versed in consumer protection and competition issues raised by the offering of Internet access services and related online content and applications.

FTC competition actions in the area of broadband and other forms of Internet access include: *In the Matter of Cablevision Systems Corp.*, Dkt. No. C-3804 (1998) (consent order); *In the Matter of AOL, Inc. and Time Warner, Inc.*, FTC Dkt. No. C-3989 (2001) (consent order); and *Time Warner/Comcast/Adelphia* (Jan. 31, 2006) (FTC File No. 051-0151) (closing statements).

purposes.⁶ The FTC respectfully submits that measures to promote competition and consumer protection should be the foundation on which the Broadband Plan is built.

Consumers – including consumers of broadband-related products and services – benefit from market competition. The U.S. Supreme Court has recognized that the benefits of competition go beyond lower prices: "The assumption that competition is the best method of allocating resources in a free market recognizes that *all elements of a bargain - quality, service, safety, and durability -* and not just the immediate cost, are favorably affected by the free opportunity to select among alternative offers."⁷

Competition and consumer protection enforcement naturally complement each other, and they mutually reinforce elements of the larger goal of benefitting consumers. Competition pressures producers to offer consumers the most attractive array of choices with respect to price, quality, and other options. Competitive firms are constantly searching for superior profit opportunities as they seek to win the favor of customers, who effectively vote for preferred products and services with their dollars.

At the same time, consumer protections promote informed consumer decision-making and require sellers to uphold representations made about their offerings in the course of trying to win the favor of customers. In other words, strong consumer protection policies reinforce competition by clarifying consumer choices and prohibiting firms from engaging in unfair or deceptive acts or practices.⁸

These well-established policies form a critical part of the foundation on which to build a

⁷ Nat'l Soc'y of Prof'l Eng'rs v. United States, 435 U.S. 679, 695 (1978) (emphasis added); accord, FTC v. Superior Court Trial Lawyers Ass'n, 493 U.S. 411, 423 (1990).

⁸ An act or practice is deceptive if it involves a representation, omission, or practice that: (1) is likely to mislead consumers acting reasonably under the circumstances, and (2) is material. *Cliffdale Assocs., Inc.*, 103 F.T.C. 110, 164-65 (1984). An act or practice is unfair if it causes injury to consumers that: (1) is substantial; (2) is not outweighed by countervailing benefits to consumers and competition; and (3) consumers themselves could not reasonably have avoided. 15 U.S.C. § 45(n); *see also Orkin Exterminating Co. v. FTC*, 849 F.2d 1354, 1363-66 (11th Cir. 1988).

⁶ See Recovery Act, supra note 1. The National Broadband Plan shall also include:

⁽a) an analysis of the most effective and efficient mechanisms for ensuring broadband access by all people of the United States;

⁽b) a detailed strategy for achieving affordability of such service and maximum utilization of broadband infrastructure and service by the public;

⁽c) an evaluation of the status of deployment of broadband service, including progress of projects supported by the grants made pursuant to this section; and

⁽d) a plan for use of broadband infrastructure and services in advancing consumer welfare, civic participation, public safety and homeland security, community development, health care delivery, energy independence and efficiency, education, worker training, private sector investment, entrepreneurial activity, job creation and economic growth, and other national purposes.

sound Broadband Plan to benefit consumers. The fundamental principles of antitrust and consumer protection law and economics are as relevant to broadband as they are to other industries in our economy.⁹ Thus, the Broadband Plan should facilitate the operation of the free market process to the greatest extent possible consistent with the Recovery Act. It should maximize incentives for businesses to enter, deploy risk capital, and compete for customers, keeping barriers to entry as low as possible. At the same time, the FTC will continue vigorous enforcement of competition and consumer protection laws in the context of broadband Internet access, so that consumers receive the benefits of competition.

II. Encouraging Additional Competition Among Broadband Infrastructure Providers

A. Broadband Internet Access Infrastructure - Competition Issues

Consumer demand for broadband Internet has grown significantly. A recent survey finds that between 2008 and 2009, home broadband adoption has increased to 63 percent of adult Americans in April 2009, up from 55 percent in April 2008.¹⁰

Consumer choice among broadband providers, however, remains limited as more than 80 percent of consumers have a choice of only one or two providers.¹¹ Moreover, urban and suburban consumers typically have more choice than rural consumers.¹² In those areas with greater choice, prices for broadband service are lower. This same survey found that of the 15 percent of consumers reporting that they have four or more broadband Internet access choices at home, they paid approximately 18 percent less than the average monthly bill.¹³

Currently, relatively large market shares for fixed, wireline broadband services are typically held by a single incumbent cable operator and a single incumbent telephone company in each geographic area and relatively large market shares for mobile broadband services held by the four largest wireless carriers.¹⁴ Nonetheless, a variety of other technologies are beginning to compete in

- ¹² Pew Study, *supra* note 4, at 24
- ¹³ *Id.* at 23-4.

¹⁴ See FCC, Annual Report and Analysis of Competitive Market Conditions with Respect to Commercial Mobile Radio Services, Thirteenth Report, 24 FCC Rcd 6185, ¶¶ 15-19 & Table A-4 (Wireless Telecom. Bur., released Jan. 16, 2009) (Verizon Wireless, AT&T, Sprint, T-Mobile, and carriers affiliated or acquired by these four companies served approximately 93% of mobile subscribers in the country as of the end of 2007).

⁹ FTC Broadband Report, *supra* note 3, at 120-37.

¹⁰ Pew Study, *supra* note 4, at 9.

¹¹ FCC High-Speed Services Report, *supra* note 4, at 11, 22, Tables 6 & 16.

that market.¹⁵ The "narrowband" dial-up Internet access services introduced in the mid-1990s have largely been supplanted by much faster broadband connections, as consumers have demanded faster access to increasingly sophisticated and data-rich content and applications.

Consumers obtain last-mile broadband Internet access services through fixed wireline technologies such as digital subscriber line ("DSL") service, coaxial cable, and fiber lines. A substantial number of consumers also now have high-speed Internet access via wireless technologies, including: fixed wireless technologies such as Wireless Fidelity ("Wi-Fi"); mobile wireless technologies such as third-generation ("3G") mobile cellular service; and satellite. Increasingly, new technologies such as Wi-MAX and other fourth-generation ("4G") wireless technologies are expected to be deployed as well.¹⁶ Broadband Internet access providers offer these services in a variety of different formats.

These general market observations, however, do not reflect the degree of broadband competition in every local market in the United States. Without a thorough review, it is difficult to determine the extent to which consumers in markets throughout the United States have a choice of broadband Internet providers. Accordingly, the FTC welcomes the learning to be gained from the development of a nationwide broadband inventory map by the National Telecommunications and Information Administration ("NTIA"), as directed by the Act.¹⁷ The development of such a broadband inventory map is an essential step toward better understanding the extent and nature of competition among broadband Internet access providers in different relevant markets in the United States.

1. Competition Policy Guidance Can Assist the Development of Regulatory Policies Governing Broadband Internet Access.

Although a nationwide broadband inventory map is a necessary first step, the mere counting of providers does not answer how competitive broadband markets are or how well consumers are served. The FTC suggests that the Broadband Plan follow a consistent and economically sound analytical framework to evaluate those questions. Such a framework for competitive market analysis could be used as the foundation for the development of ongoing regulatory policies governing broadband Internet access.¹⁸

¹⁵ See FTC Broadband Report, supra note 3, at 98-105.

¹⁶ See generally id; FCC High-Speed Services Report, supra note 4.

¹⁷ Recovery Act, *supra* note 2, at Division B, Title VI § 6001(l).

¹⁸ The FCC has taken varying approaches to analyzing competition in the same general market segments. In some cases, it conducted a rigorous competition analysis consistent with the Merger Guidelines. *See, e.g., Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, 18 FCC Rcd 16978, ¶¶ 73-74 (2003) ("*Triennial Review Order*"), *modified*, 18 FCC Rcd 19022 (2003), *aff'd in part and rev'd and remanded in part on other grounds, United States Telecom Ass'n*, 359 F.3d 554 (D.C. Cir. 1994), subsequent history omitted. By contrast, in other non-merger policy decisions, the FCC did not conduct a rigorous economic analysis consistent with the framework of the Merger Guidelines. *See, e.g., Appropriate Framework for Broadband Access to the Internet Over Wireline Facilities*, 20 FCC Rcd 14853, ¶¶ 47-62 (2005) ("*Wireline Broadband*

An analysis of price and market share information for broadband services in properly defined product and geographic markets (as discussed below) can help illuminate existing entry barriers and identify appropriate regulatory responses to protect against the exercise of market power that harms consumers.¹⁹ In this type of competitive analysis, the key question is whether there are constraints on a broadband provider's ability potentially to exercise market power in a relevant market. Market power is typically defined as the ability of a firm to profitably raise price above the competitive level.

The Merger Guidelines provide a competitive analysis approach that can help evaluate the extent of broadband Internet access competition in any given relevant product and geographic market.²⁰ The Merger Guidelines provide extensive guidance on how to identify relevant product and geographic markets and to determine which providers compete in or could enter those markets. The FTC has used the Merger Guidelines in merger reviews and other investigations in broadband and Internet access markets.²¹

2. Identify Relevant Product and Geographic Markets

The first step in this analysis is to identify the relevant markets for broadband services. Under this analysis, a relevant market for a service would consist of services sold in competition with any other such service, such that a provider could profitably increase price without customers switching to another provider. If customers would switch to another service (thereby preventing the provider(s) from increasing the price in the first place), then those services would be included in the definition of the relevant product market as well.

In the case of broadband Internet access, the analysis of last-mile competition frequently centers around cable, DSL, and (more recently) fiber wireline technologies. Services need not necessarily be perfect substitutes for each other to be included in the same relevant market. If a wireless broadband service appeals to a sufficient number of marginal cable modem or DSL broadband consumers to constrain the provider's pricing activity, for example, then the wireless broadband service may be considered a competitive alternative and counted as part of the relevant product market. The critical question is to determine the services to which consumers would turn if

¹⁹ See generally USTelecom, *High-Capacity Services: Abundant, Affordable, and Evolving*, (July 2009); National Regulatory Research Institute, *Competitive Issues in Special Access Markets*, (rev'd ed. Jan. 21, 2009). Both reports suggest additional data collection is necessary to engage in a competitive market analysis.

²⁰ U. S. Dept. of Justice and Federal Trade Comm., HORIZONTAL MERGER GUIDELINES (Apr. 2, 1992, rev'd Apr. 8, 1997), *reprinted* in 4 Trade Reg. Rep. (CCH) ¶ 13,104 [hereinafter Merger Guidelines].

²¹ See, e.g., In the Matter of AOL, Inc. and Time Warner, Inc., FTC Dkt. No. C-3989 (2001) (consent order).

Order"), aff'd, Time Warner Telecom, Inc. v. FCC, 507 F.3d 205 (3d Cir. 2007); Petition of AT&T Inc. For Forbearance from Title II and Computer Inquiry Rules with Respect to Its Broadband Services, 22 FCC Rcd 18705, ¶¶ 18-27 (2007) ("AT&T Broadband Forbearance Order").

their existing providers increase price or reduce quality.²²

Competition analytics also can be applied to properly define the nature of competition in middle-mile and long-distance market segments. These are the market segments that do not serve end-user consumers but rather include backhaul, special access services, or interconnection of a provider's network to the larger Internet. These segments can be critical to enable new end user providers to provide broadband service in a particular geographic area. Competition in these segments ultimately can affect competition in the last mile, for example, by affecting the entry of new providers of last-mile services. New last-mile technologies, such as fixed wireless, typically at some point require a connection to longer-distance transport services in order to provide users with access to the broader, global Internet. Thus, the nature of competition in middle-mile and backbone connections may affect the ability of a provider of last-mile wireless service to enter and compete.

Once the relevant product market is identified, the inquiry then turns to the relevant geographic market. The relevant geographic market is the area within which a broadband Internet access provider could profitably raise price, without consumers switching to other access providers. The relevant geographic markets for consumer broadband Internet access services could be local or regional. In middle-mile markets, the relevant geographic area would be one in which the provider offering the relevant product (*e.g.*, DS-1 circuits) could profitably raise price without customers switching to another provider inside that area. Again, the critical question is to whom would customers turn if their current providers increased price or reduced quality.²³

Once the relevant product and geographic markets are identified, the next step is to identify

²³ Past FCC decisions have assessed competition in broadband markets using different geographic definitions without explaining the differences. *See, e.g., SBC/AT&T Merger Order*, ¶ 28 (defining each individual customer premise as a separate geographic market); *Triennial Review Remand Order*, ¶¶ 80, 156 (defining geographic markets based on individual routes between particular ILEC central office buildings for competitive assessment of transport or middle-mile facilities, but based on all locations within each wire center service area for purposes of competitive assessment of loop or last-mile facilities); *Petition of Qwest Corp. For Forbearance in the Omaha Metropolitan Statistical Area*, 20 FCC Rcd 19415 (2005) (defining geographic markets based on metropolitan area for purpose of assessing "dominant carrier" status of retail broadband services provided to mass market consumers, but based on wire center service areas for purpose of assessing need for of unbundled network element requirements); *Wireline Broadband Order* (applying policy change nationwide, without any attempt to define geographic market); *AT&T Broadband Forbearance Order*, ¶ 20 (same).

²² The FCC has taken varied approaches to product market definition in the context of last-mile broadband facilities. For example, in some cases the FCC has defined product markets to separately identify different capacity levels (*e.g.*, voice grade, DS-1, DS-3, and OC-3 and higher level circuits). *See, e.g., Unbundled Access to Network Elements; Review of the Section 251 Unbundling Obligations of Incumbent Local Exchange Carriers*, 20 FCC Rcd 2533, ¶ 166 (2005) ("*Triennial Review Remand Order*"), *aff*'d, *Covad Communications Corp. v. FCC*, 453 F.3d 528 (D.C. Cir. 2006). By contrast, in other cases the FCC has conflated all of these capacity levels for last-mile access and treated them as a single product market, with no Merger Guidelines-type analysis of the extent to which buyers would shift between these different capacity circuits in the event of a price increase. *See, e.g., SBC Communications, Inc. and AT&T Corp. Applications for Approval of Transfer of Control*, 20 FCC Rcd 18290, ¶ 27 n.90 (2005) ("*SBC/AT&T Merger Order*").

the current suppliers into the relevant markets. Market share statistics can then be used to calculate concentration levels in each relevant market. The analysis of market share information, however, is often just the starting point for a more sophisticated analysis of the competitiveness of the relevant market(s) and an examination of whether existing business practices in those markets facilitate or retard competition.

An important part of this competitive analysis is to examine the ease with which firms can increase supply to the market. Such responses may occur in several ways, such as by entry of new firms, the switching or extension of existing assets to production or sale in the relevant market, or by the construction or acquisition of assets that enable production or sale in that market. Some firms not currently serving consumers may constrain conduct by incumbent firms, through the threat of potential entry. If entry is easy, it likely will deter or counteract any competitive concerns. But if entry is difficult, competitive concerns will increase. Factors such as large sunk costs and long lead times tend to make entry difficult. Generally, only those entry alternatives that can be achieved within two years from initial planning to significant market impact will be considered as likely to counteract competitive concerns.

In sum, the Merger Guidelines can provide useful principles for assessing competition in broadband Internet access services in any relevant market. A fact-based competition analysis, including attention to entry barriers, can be used to fashion appropriate regulatory policies to maintain or increase competition among broadband providers.

B. Meaningful Consumer Disclosures and Strong Data Security Policies Promote Broadband Adoption and Usage

To ensure consumers benefit from competition among broadband providers, the Broadband Plan should address two consumer protection issues: (1) truthful, clear and conspicuous disclosure of material terms of service; and (2) data security. Current federal consumer protection law can address both sets of concerns. The FTC has used its full range of law enforcement authority (including redress where appropriate), regulation, consumer and business education, and policy initiatives to address both issues,²⁴ and will continue to do so in the broadband Internet access

E.g., FTC v. Cyberspace.com LLC, 453 F.3d 1196 (9th Cir. 2006) (affirming finding of more than \$17 million in liability for violation of FTC Act for mailing false or misleading purported rebate refund checks without disclosing that cashing checks would prompt monthly charges for Internet access services on customers' telephone bills); FTC v. Pricewert LLC (No. C-09-2407 RMW) (N.D. Cal. 2009) (securing preliminary injunction for likely violation of FTC Act for recruiting, distributing, and hosting harmful electronic code or content, including: child pornography, botnet command and control servers, spyware, viruses, trojans, and phishing-related Internet sites); In the Matter of America Online, Inc. & Compuserve Interactive Servs., Inc., FTC Docket No. C-4105 (Jan. 28, 2004) (consent order); In the Matter of Juno Online Servs., Inc., FTC Docket No. C-4016 (Jun. 25, 2001) (consent order); In the Matter of WebTV Networks, Inc., FTC Docket No. C-3988 (Dec. 8, 2000) (consent order); In the Matter of America Online, Inc., FTC Docket No. C-3787 (Mar. 16, 1998) (consent order); In the Matter of CompuServe, Inc., 125 F.T.C. 451 (1998) (consent order); In the Matter of Prodigy, Inc., 125 F.T.C. 430 (1998) (consent order).

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1. Clear and Conspicuous Disclosure of Material Terms of Service

Without truthful marketing and clear disclosure of material terms, consumers will lack the information they need to make informed decisions regarding broadband Internet access services, which will affect competition on the merits. As a result, consumer purchase decisions will be distorted, and competition will be harmed. Accurate disclosure of material terms allows consumers to compare similar services offered by one or more providers and to weigh the different terms being offered in making decisions about what services to purchase.

Advertising is one way in which broadband access providers raise consumer awareness of their products and services. Under the FTC Act, advertisements must be truthful and not mislead consumers in ways that affect consumers' behavior or decisions about the product or service. An advertisement claim can be misleading if it contains a misrepresentation or omission that is likely to mislead consumers acting reasonably under the circumstances to their detriment. For example, it might be deceptive to represent to consumers that they will receive unlimited Internet access when, in fact, there are specific usage limitations.²⁶ In addition, advertising claims must be substantiated, especially when they concern performance attributes of the product or service.²⁷

Certain claims common to Internet service contracts are "material," such as those relating to price, contract duration, and service purchase (*e.g.*, bundling of broadband Internet access with other services like video and telephone). Depending on the context and usage, other terms may be material, including: data transmission speeds, use limitations, broader network management policies, and the existence of any preferential business arrangements with content or applications providers.

These additional terms of service may become more important to consumers over time, as increasingly powerful network management tools allow network operators to monitor, aggregate, and analyze data from Internet traffic. Even if data are encrypted, such techniques may allow a network operator to modify its service based on the consumer's use patterns. These types of practices may be material to reasonable consumers and, thus, may require meaningful consumer disclosure.

²⁵ Because the provision of broadband Internet access is not a common carrier service, *see, e.g., Nat'l Cable & Telecommunications Ass'n v. Brand X Internet Servs.*, 545 U.S. 967 (2005), the FTC and FCC have concurrent jurisdiction over the provision of broadband service. So that consumers can benefit from the FTC's competition and consumer protection expertise, national broadband policies should preserve the FTC's jurisdiction over broadband Internet access.

²⁶ See, e.g., Letter from Lydia B. Parnes, Director, Federal Trade Commission, Bureau of Consumer Protection, to Sprint/Nextel Corporation (Aug. 8, 2007) *available at* http://www.ftc.gov/os/closings/staff/070808sprintnextelclosingltr.pdf.

²⁷ *Cliffdale Assocs.*, 103 F.T.C. 110, 175 (1984) (appending FTC Policy Statement on Deception).

The question becomes whether currently available disclosures by providers of broadband service provide clear and meaningful information to consumers. And if not, how these types of information can be disclosed clearly and conspicuously so that they are meaningful to consumer purchase decisions. Given the complex, multi-dimensional nature of Internet service offers, consumers frequently may find it difficult to understand key features and costs of broadband options. Those who do not understand Internet service offers may pay more than necessary, or select contracts with inappropriate features for their circumstances. If consumer confusion in this market is substantial, then uniform disclosure of key terms and features should be considered. Any such analysis should include consideration of whether the benefits of uniform disclosure would outweigh its costs.

In other contexts, for example, in evaluating mortgage disclosures, FTC research demonstrates that well-designed disclosures can improve consumer understanding. At the same time, the research also demonstrates that disclosures must be developed carefully, because even well-intentioned disclosures can actually harm consumers. To be most effective, uniform disclosures should be tested with real consumers, using controlled, quantitative, objective tests of consumer understanding.²⁸

Disclosure of the terms of service also is especially important where discount offers are made or other promotional periods are set to end. Consumers who subscribe to such offerings are likely to expect a consistent baseline level of service throughout the contract period. The FTC and the courts have found that a unilateral change of contract terms can be an unfair practice.²⁹ Thus, the potential for last-mile broadband Internet access providers to change the nature of their services over time may raise important questions relating to the nature of their disclosures and consumers' ability to understand them.

2. Strong Consumer Data Security Policies Promote Consumer Confidence and Broadband Adoption.

Inadequate protection of personal information and data security in the broadband Internet context could hamper consumer confidence and undermine the benefits of broadband Internet service. To combat these harms, privacy has been one of the FTC's highest consumer protection

²⁸ See James M. Lacko & Janis K. Pappalardo, Federal Trade Commission, Bureau of Economics Staff Report, THE EFFECT OF MORTGAGE BROKER COMPENSATION DISCLOSURES ON CONSUMERS AND COMPETITION: A CONTROLLED EXPERIMENT (Feb. 2004), *available at* <u>http://www.ftc.gov/os/2004/01/030123mortgagefullrpt.pdf;</u> James M. Lacko & Janis K. Pappalardo, Federal Trade Commission, Bureau of Economics Staff Report, IMPROVING CONSUMER MORTGAGE DISCLOSURES: AN EMPIRICAL ASSESSMENT OF CURRENT AND PROTOTYPE DISCLOSURE FORMS (June 2007), *available at* http://www.ftc.gov/os/2007/06/P025505mortgagedisclosurereport.pdf.

²⁹ For example, in the context of lifetime service contracts used by an exterminator, the Commission challenged unilateral changes of material terms of the contract by the company as unfair trade practices. *See* Orkin Exterminating, 849 F.2d at 1363-66; *see also FTC v. Certified Merch. Servs., Inc.*, No. 4:02:cv44 (E.D. Tex. Dec. 30, 2002) (final judgment and order), *available at* http://www.ftc.gov/os/2003/01/cms.pdf.

priorities for more than a decade.³⁰ The FTC has addressed privacy issues through law enforcement actions, including numerous actions to reduce the incidence of spam and spyware;³¹ a multi-faceted war on identity theft;³² promulgation and enforcement of the Telemarketing Sales Rule ("TSR"),³³ including the maintenance and enforcement of the Do Not Call Registry³⁴ to respond to consumer complaints about unsolicited and unwanted telemarketing; and numerous workshops and other research to examine privacy issues raised by emerging technologies and business practices.³⁵

A critical component of privacy is data security. If companies do not protect the sensitive consumer information they collect and store, that information could fall into the wrong hands, resulting in fraud or other harm. Important questions raised in this context are whether companies in practice live up to the privacy and security policies that they announce to consumers and whether their handling of sensitive consumer data is unfair. Since 2001, the FTC has brought over two dozen law enforcement actions that challenged businesses that allegedly failed to adequately protect consumers' personal information.³⁶ These cases emphasize the importance of protecting consumers

³⁰ See generally FTC, Privacy Initiatives, <u>http://www.ftc.gov/privacy/index.html</u>.

³¹ See generally FTC, Spyware, Enforcement Actions, <u>http://www.ftc.gov/bcp/edu/microsites/spyware/law_enfor.htm</u> and FTC, Spam, Press Room, <u>http://www.ftc.gov/bcp/edu/microsites/spam/press.htm</u> (providing lists of enforcement actions in these areas).

³² See generally FTC, Fighting Back Against Identify Theft, http://www.ftc.gov/bcp/edu/microsites/idtheft (the FTC's identity theft site).

³³ 16 C.F.R. Part 310.

³⁴ The Do Not Call Registry was established by amendments to the TSR. *Id.* For information on the Do Not Call Registry, which is enforced jointly by the FTC and the FCC, see generally FTC, National Do Not Call Registry, <u>http://www.ftc.gov/donotcall</u>.

³⁵ For example, the FTC hosted a Town Hall on the privacy and security issues associated with contactless payment mechanisms and a Town Hall and staff report on mobile marketing. *See* FTC Workshop Information Page, "Pay on the Go: Consumers and Contactless Payment," *available at* <u>http://www2.ftc.gov/bcp/workshops/payonthego/index.shtml</u>; Workshop Information Page, FTC, "Beyond Voice: Mapping the Mobile Marketplace," *available at* <u>http://www2.ftc.gov/bcp/workshops/mobilemarket/index.shtml</u>; Workshop Information Page, "To marketplace," *available at* <u>http://www2.ftc.gov/bcp/workshops/mobilemarket/index.shtml</u>; Workshop Information Page, "Beyond Voice: Mapping the Mobile Marketplace," *available at* <u>http://www2.ftc.gov/bcp/workshops/mobilemarket/index.shtml</u>.

³⁶ See, e.g., United States v. Rental Research Svcs., No. 09-CV-00524-PJS-JJK (D. Minn. Mar. 5, 2009); FTC v. Navone, No. 2:08-CV-001842 (D. Nev. Dec. 30, 2008); United States v. ValueClick, Inc., No. 2:08-CV-01711 (C.D. Cal. Mar. 13, 2008); United States v. American United Mortgage, No. 1:07-CV-07064 (N.D. Ill. Dec. 18, 2007); United States v. ChoicePoint, Inc., No. 1:06-CV-0198 (N.D. Ga. Feb. 15, 2006); In the Matter of CVS Caremark Corp., FTC Docket No. C-4259 (June 18, 2009); In the Matter of James B. Nutter & Co., FTC Docket No. C-4258 (June 12, 2009); In the Matter of Genica Corp., FTC Docket No. C-4252 (March 16, 2009); In the Matter of Premier Capital Lending, Inc., FTC Docket No. C-4241 (Dec. 10, 2008); In the Matter of The TJX Cos., FTC Docket No. C-4227 (July 29, 2008); In the Matter of Reed Elsevier Inc., FTC Docket No. C-4226 (July 29, 2008); In the Matter of Life is good, Inc., FTC Docket No. C-4218 (Apr. 16, 2008); In the Matter of Goal Fin., LLC, FTC Docket No. C-4216 (Apr. 9, 2008); In the Matter of Guidance Software, Inc., FTC Docket No. C-4187 (Mar. 30, 2007); In the Matter of CardSystems Solutions, Inc., FTC Docket No. C-4168 (Sept. 5, 2006); In the

against common security threats and the need for businesses to evaluate their security procedures on an ongoing basis. In addition, the FTC generally recommends that all companies operating in the broadband area, including last-mile providers, closely review their privacy policies and actual practices to make sure that they are consistent with each other.

The FTC recognizes that there is no one-size-fits-all data security plan. Rather, data security plans must be adapted to the size and nature of the business, the sensitivity of the information, the nature of the tools available, and the security risks the business is likely to face. Like other companies that have access to large amounts of sensitive personal data, broadband providers have a serious obligation to take reasonable steps to protect that data.

III. Consumer Access to Online Content and Applications: Competition and Consumer Privacy Issues

The broadband infrastructure platform itself and the demand for the content and applications that it enables are linked to each other. Since the Internet's privatization and associated commercialization in the mid-1990s, market competition has spurred the development of an ever-expanding universe of content and applications. Today, the Internet allows millions of users to communicate with each other almost instantaneously through e-mail, instant messaging, chat rooms, commercial Web sites for purchasing goods and services, social networking sites, Web logs ("blogs"), music and video downloads, political forums, voice over IP ("VoIP") telephony services, streaming video applications, and multi-player network video games, among other ways. Improvements in Internet access infrastructure, in turn, have enabled increasingly sophisticated and data-rich content and applications.

To further this development, the FTC suggests that the Broadband Plan take into account the interconnection and non-discrimination requirements outlined in the Notice of Funds Availability that apply to infrastructure funded by the Recovery Act.³⁷ These requirements, which are subject to law enforcement and reasonable network management practices, include:

1. Adhering to the principles in the FCC's Broadband Policy Statement;³⁸

Matter of Nations Title Agency, Inc., FTC Docket No. C-4161 (June 19, 2006); In the Matter of DSW, Inc., FTC Docket No. C-4157 (Mar. 7, 2006); In the Matter of Superior Mortgage Corp., FTC Docket No. C-4153 (Dec. 14, 2005); In the Matter of BJ's Wholesale Club, Inc., FTC Docket No. C-4148 (Sept. 20, 2005); In the Matter of Nationwide Mortgage Group, Inc., FTC Docket No. 9319 (Apr. 12, 2005); In the Matter of Petco Animal Supplies, Inc., FTC Docket No. C-4133 (Mar. 4, 2005); In the Matter of Sunbelt Lending Servs., Inc., FTC Docket No. C-4129 (Jan. 3, 2005); In the Matter of MTS Inc., d/b/a Tower Records/Books/Video, FTC Docket No. C-4110 (May 28, 2004); In the Matter of Guess?, Inc., FTC Docket No. C-4091 (July 30, 2003); In the Matter of Microsoft Corp., FTC Docket No. C-4069 (Dec. 20, 2002); In the Matter of Eli Lilly & Co., FTC Docket No. C-4047 (May 8, 2002).

³⁷ U.S. Department of Agriculture, Rural Utility Service and the U.S. Department of Commerce, National Telecommunications and Information Administration, Notice of Funds Availability, 74 Fed. Reg. 33104, 33110-11 (Jul. 9, 2009).

³⁸ The FCC's Policy Statement contains the following principles:

• To encourage broadband deployment and preserve and promote the open and interconnected

- 2. Not favoring any lawful Internet applications or content over others;
- 3. Displaying network management policies in a prominent location on the service providers' web page and providing notice to customers of changes to these policies;
- 4. Connecting to the public Internet directly or indirectly; and
- 5. Offering interconnection, where technically feasible, at reasonable rates and on reasonable terms to be negotiated with requesting parties.

A. Competition Issues: Vertical Integration, Discrimination, and Blockage

The network management policies used by broadband providers have become increasingly important to ensuring consumer satisfaction with broadband services. At the same time, competition concerns about these network management practices have arisen regarding the interaction of networks with the content and applications that travel over them.

For example, recent advances in packet inspection technologies allow network operators to identify the source and content of much of the data traffic they handle and to manage its transmission in increasingly sophisticated ways. Economic theory suggests that a network platform with significant market power and a vertical interest in related content or applications may have an incentive to use network management as a way to degrade or block competing content or applications delivered over its network. Such an incentive may be heightened when network resources are scarce, as during a period of congestion.³⁹

At the same time, last-mile broadband Internet service providers also have countervailing incentives to maximize the value of their network platform to users. As such, network management

nature of the public Internet, consumers are entitled to access the lawful Internet content of their choice.

[•] To encourage broadband deployment and preserve and promote the open and interconnected nature of the public Internet, consumers are entitled to run applications and use services of their choice, subject to the needs of law enforcement.

[•] To encourage broadband deployment and preserve and promote the open and interconnected nature of the public Internet, consumers are entitled to connect their choice of legal devices that do not harm the network.

[•] To encourage broadband deployment and preserve and promote the open and interconnected nature of the public Internet, consumers are entitled to competition among network providers, application and service providers, and content providers.

FCC, Appropriate Framework for Broadband Access to the Internet over Wireline Facilities, Policy Statement on Broadband Internet Access, 20 FCC Rcd 14986 (2005).

³⁹ Joseph Farrell, *Open Access Arguments: Why Confidence is Mis-Placed*, in NET NEUTRALITY OR NET NEUTERING, SHOULD BROADBAND INTERNET SERVICES BE REGULATED? 195 (Thomas M. Lenard & Randolph J. May eds., 2006) (discussing the uncertainty surrounding the economic incentives of broadband network platforms in relation to the content and applications that they enable). *See also* Joseph Farrell & Philip J. Weiser, *Modularity, Vertical Integration, and Open Access Policies: Towards a Convergence of Antitrust and Regulation in the Internet Age*, 17 HARV. J. L. & TECH. 85 (2003) (discussing more generally the economic incentives that platform providers have relative to the products and services that they enable).

practices that reduce consumer welfare also generally would be expected to reduce consumer demand for their own network, to their financial detriment.⁴⁰

Competition among several broadband Internet access providers likely would reduce competitive concerns. More competition among broadband Internet access providers is likely to check many of the potential network management practices that might reduce consumer welfare, through the threat of losing customers to another network operator. Again, however, the mere counting of providers or different technologies does not, by itself, answer the question of how well consumers are being served. Rather, an analysis of the alternatives available to consumers, as discussed above, could help illuminate the likely effects on consumers of various network management practices in relation to content and applications.

B. Online Consumer Privacy Issues

Strong privacy protections for consumers are critical to facilitating the development and consumer use of the content and applications enabled by broadband infrastructure.⁴¹ We suggest that the Broadband Plan acknowledge the importance of safeguarding consumer privacy so that the promise of broadband access benefits consumers.

The FTC recognizes concerns about the collection of consumer data while online, especially when consumers may not understand how the information could be used because such practices are not clearly explained to them. Consumers justifiably expect clear and truthful information relating to their use of the Internet, including their online activities. To the extent that truthful marketing and clear disclosure relating to consumer privacy, personal information, or the protection of related data is lacking, consumer confidence in Internet-related services may be hampered.⁴²

A significant number of consumers appear to be particularly concerned about the tracking of their online activities for the purposes of, for example, delivering targeted advertisements.⁴³ It appears consumers generally maintain these concerns even where the data collected is not personally identifiable. Several companies, industry organizations, and privacy groups have taken steps to address some of the concerns raised by online behavioral advertising.⁴⁴ Nonetheless, the FTC

See id.

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⁴² FTC Broadband Report, *supra* note 3, at 130.

⁴³ FTC, FTC Staff Report: Self-Regulatory Principles for Online Behavioral Advertising ["FTC Behavioral Advertising Staff Report"] (Feb. 2009) at 23-24.

⁴⁴ For example, some industry organizations have developed new self-regulatory principles covering businesses engaged in online behavioral advertising. Also, a number of companies have developed new policies and procedures to inform consumers about online tracking and provide additional protections and controls over the practices. Such developments include new tools to allow consumers to opt out of receiving targeted online advertisements, as well as new versions of Internet browsers that allow users to not save browsing and search

⁴¹ See FCC NOI supra note 1, at ¶ 65.

remains vigilant in this area and is committed to vigorous law enforcement in connection with unfair and deceptive practices involving consumers' online activities.

For example, earlier this year the FTC staff released a report containing principles designed to serve as the basis for industry self-regulatory efforts to address the privacy and data security concerns raised by behavioral advertising.⁴⁵ Behavioral advertising is the practice of tracking an individual's online activities in order to deliver targeted advertising tailored to that individual's interests.⁴⁶

Although behavioral advertising may benefit consumers with advertising that is more relevant to their interests and free online content, it also raises substantial privacy concerns. Consumers may be uncomfortable about being tracked. Further, without adequate safeguards, consumer tracking data – which may include sensitive data about children, health, or a consumer's finances – could fall into the wrong hands or be used for unanticipated purposes.

To address these concerns, the FTC staff principles call for transparency, consumer control, and reasonable security for consumer behavioral data. They also call for companies to obtain affirmative express consent from consumers before they: (1) use data in a manner that is materially different than promised at the time of collection; and (2) collect and use "sensitive" consumer data for behavioral advertising.

Further, the FTC recognizes that, as more data flows across geographic borders, protecting that data will require international cooperation. Earlier this year, the FTC staff held a two-day international conference to address how companies can manage data security in a global environment where data can be stored and accessed from multiple jurisdictions.⁴⁷ The FTC will continue to partner with its foreign counterparts and other international organizations to maintain data security across borders without restricting information flows that benefit consumers.

In addition, the FTC is examining "cloud computing," which is defined broadly as the provision of Internet-based computer services. Cloud computing allows businesses and consumers to use software and hardware located on remote computer networks operated by third parties.

histories, cookies, form data, or passwords, and which will automatically clear the browser cache at the end of each session. Other steps being taken include educational programs to inform consumers about online tracking and new policies to reduce the length of time companies store personal data collected about online searches.

⁴⁵ *See* FTC Behavioral Advertising Staff Report, *supra* note 43.

⁴⁶ An example of how behavioral advertising might work is as follows: a consumer visits a travel web site and searches for airline flights to New York City. The consumer does not purchase any tickets, but later visits the website of a local newspaper to read about the Washington Nationals baseball team. While on the newspaper's site, the consumer receives an advertisement from an airline featuring flights to New York City.

⁴⁷ FTC, Securing Personal Data in the Global Economy, http://www2.ftc.gov/bcp/workshops/personaldataglobal/index.shtm.

Because cloud computing reduces the need for businesses and consumers to purchase, operate, and maintain software and hardware themselves, it may be a less costly way for them to manage, store, and use data. Cloud computing is an emerging business model, and the FTC is analyzing the privacy and data security implications for consumers.⁴⁸

C. The Need for Additional Learning

The extent to which network management practices may affect competition and consumers is likely to vary, depending on the particular factual circumstances.⁴⁹ The FTC suggests that the Broadband Plan affords an opportunity to develop a firmer understanding of the facts relevant to network management practices and their effects on consumers. Empirical data to answer the following questions, among others, may help illuminate the competitive and consumer impact of these practices.

- 1. What network management practices are used when network capacity is not constrained? What benefits or efficiencies are associated with these practices?
- 2. What network management practices are used when network capacity is constrained, due to congestion or other factors? What benefits or efficiencies are associated with these practices?
- 3. Are there alternatives, other than network management (*e.g.*, increasing network capacity), to remedy capacity constraints? To what extent are such alternatives practical and economically feasible?
- 4. Do network operators have incentives to limit network capacity, for example, in order to sell prioritized data transmission or other types of quality of service assurances?
- 5. To what extent have network management practices been used to block or degrade data transmission, either when capacity is constrained or under other circumstances?
- 6. How do providers of online content and applications currently compensate network operators for Internet access and the transmission of their data?
- 7. What network management practices are required to ensure that network operators can provide services to online content and applications providers? Are there services that can be provided only by network operators in conjunction with network management?

⁴⁸ For example, the FTC is currently considering a petition submitted by the Electronic Privacy Information Center that raises data security concerns about Google's provision of cloud computing services to consumers. EPIC Complaint Before the FTC, *In the Matter of Google, Inc. and Cloud Computing Services* (Mar. 19, 2009), *available at* http://epic.org/privacy/cloudcomputing/google/ftc031709.pdf.

⁴⁹ See generally Howard A. Shelanski, *Network Neutrality: Regulating With More Questions Than Answers*, 6 J. TELECOMM. & HIGH TECH. L. 23 (2007) (exploring several unanswered questions in this area and discussing their implications for broadband Internet policy).

- 8. Are there ways that some content and applications providers may obtain preferred transmission of their data, beyond best-efforts transmission, either when network capacity is constrained or unconstrained? What are these techniques? To what extent are they used?
- 9. How are content and applications providers that do not obtain preferential transmission of their data affected by those that might obtain such treatment?
- 10. How do consumers become aware of whether the content and applications they use are transmitted by a network on a basis other than best-efforts? To what extent are consumers, in fact, aware of such treatment?
- 11. What are consumers' expectations about the collection, use, and security of their personal information when they browse the Internet, purchase products online, and participate in social networking sites? What are the best ways to measure such expectations?
- 12. What are the most significant threats to the privacy and security of consumers' personal information in the broadband Internet context?
- 13. What privacy and data security protections are currently provided for data obtained from behavioral advertising? Are additional protections needed?
- 14. What new data security, access, and control issues are presented by cloud computing platforms that may house applications and personal data?

IV. Conclusion

The FTC encourages the FCC to incorporate sound competition and consumer protection principles as the foundation for the Broadband Plan. The Broadband Plan provides an ideal opportunity to perform a competitive market analysis that can be used as the foundation for the development of ongoing regulatory policies governing broadband Internet access. It also can be used to gather additional empirical information about the impact of network management practices on consumers and competition.

The FTC has been involved in the Internet access area for over a decade and will continue to do so. The FTC Act is sufficiently flexible to allow the FTC to enforce the antitrust and consumer protection laws in this industry. The FTC will continue to devote substantial resources to maintaining competition and protecting consumers from deceptive or unfair acts or practices in the area of broadband Internet access, using a variety of tools.

By Direction of the Commission.

Donald S. Clark Secretary