INTEROPERABILITY BETWEEN ANTITRUST
AND INTELLECTUAL PROPERTY

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Good afternoon and thank you for inviting me today. I also extend a special thanks to our foreign guests for taking the time to come to today’s event. Their presence does more to illustrate the importance of this conference’s topic, antitrust issues in the global marketplace, than anything I might say this afternoon.

My remarks today focus on intellectual property in the global antitrust arena and certain difficulties with applying the concept of “dominance” to the market power that successful companies sometimes gain by creating new technologies and IP rights. In particular, regulatory second-guessing of private firms’ solutions to technological problems, which I perceive to be on the increase, threatens to harm the very consumers it claims to help. To address this topic, I will start with some first principles on innovation and consumer welfare and then expand on the issues in the context of a specific example. Next, I will offer some general principles to guide the antitrust analysis of dominance and single-firm conduct. Finally, I will address what I consider to be a related topic: process integrity and the importance of carefully designing, and complying with, legal orders.

I. Intellectual Property and Dynamic Efficiency

Let me begin, briefly, with first principles and some basic innovation economics. Antitrust and intellectual property policy are complements in that both seek to create a set of incentives to encourage an innovative, vigorously
competitive marketplace that enhances efficiency and improves consumer welfare.¹ This concept of efficiency is crucial to understanding how IP law interacts with the world of antitrust.² To some, “efficiency” can mean static efficiency, which occurs when firms compete within an existing technology to streamline their methods, cut costs, and drive the price of a product embodying that technology down to something close to the cost of unit production. Static efficiency is a powerful force for increasing consumer welfare, but economists tell us that an even greater driver of consumer welfare is dynamic efficiency. Dynamic efficiency refers to gains that result from entirely new ways of doing business. The Austrian economist Joseph Schumpeter explained dynamic efficiency as:

... competition from the new commodity, the new technology, the new source of supply, the new organization ... competition which commands a decisive cost or quality advantage and which strikes not at the margins of the profits and the outputs of the existing firms but at their foundations and their very lives.³


A more colloquial term for dynamic efficiency, but a helpful one, is leapfrog competition – competition that does not merely improve upon old methods, but leaps ahead into something new.

It follows from the Schumpeterian view that antitrust law, with its focus on improving consumer welfare, has a keen interest in protecting innovation. Fostering innovation requires recognition of the benefits of dynamic efficiency and the dangers of focusing myopically on static efficiency. The same forces that yield the benefits of static efficiency – conditions that encourage rivals quickly to adopt a new business method and drive their production toward marginal cost – can discourage innovation (and thus dynamic efficiency) if the drive toward marginal costs occurs at such an early stage that it makes innovation uneconomical. Where innovation requires substantial up-front research and development (R&D) costs, a rational firm will elect not to innovate if it anticipates a selling environment that too quickly resolves to marginal cost of production. This problem is sometimes described as the need to recoup R&D costs and an expected profit sufficient to induce firms to direct their capital to risky R&D ventures.

Seen in this light, strong intellectual property protection is not separate from competition principles, but rather, is an integral part of antitrust policy as a whole. Intellectual property rights should not be viewed as protecting their owners from
competition; rather, IP rights should be seen as encouraging firms to engage in competition, particularly competition that involves risk and long-term investment. Properly applied, strong intellectual property protection creates the competitive environment necessary to permit firms to profit from their inventions, which encourages innovation effort and improves dynamic efficiency.

Such a competitive environment is, to use an old cliché, the goose that lays golden eggs. Nurturing such an environment has created innumerable golden eggs in the U.S.: the telephone, the phonograph, light bulbs, lasers, computers, television, and countless new drugs and medical devices. Once these breakthrough inventions exist, however, it can be tempting to carve up the benefits and spread them around the economy. When Christmas dinner approaches, it is tempting to think, why not carve up the goose itself? We can find fault with the goose: she ought to be laying more eggs, and she might even be keeping an egg or two for herself. But we all know the moral lesson to this story. When you kill the goose, you end up without the eggs, and you quickly learn that the one big meal was not worth the long term cost.

Even in a competitive economy with sound antitrust laws, we cannot take capital-intensive innovation for granted. In a speech called “Competition and the
End of Geography,”⁴ which I commend to you, my predecessor as Assistant Attorney General, Hew Pate, described a view that threatens to kill the proverbial goose. He explained that the traditional view of intellectual property as property, which he called the “asset faction,” is under attack from the “access” and “redistribution” factions, which seek to limit or abolish copyrights and patents in order to make it easier to copy music, computer programs, drugs, and medical technology. Increasingly, these access and redistribution factions see “dominance” by successful innovators, meaning large market share, as a problem to be solved, and antitrust and consumer protection law as the solution.

II. A Cautionary Tale for Applying “Dominance” to IP Rights

Access and redistribution can be a tempting “Christmas dinner” under a short term, static view, but this is ultimately misguided. The temptation persists even where the innovation has solved a vexing problem that everyone admits used to exist, and even where consumers flock to the innovation despite the availability of alternatives. I would like to illustrate this problem today with a discussion of Apple’s iPod and iTunes, based on my general understanding without purporting to be an expert in the field.

A. Napster, Grokster, and the Rise of iTunes

Apple’s iTunes music service has (for the moment) solved a problem that some observers, less than five years ago, predicted might never be solved: how to create a consumer-friendly, yet legal and profitable, system for downloading music and other entertainment from the Internet. It is instructive to review the history of the problem. The technical capability to offer digital music over the Internet has existed at least since the early 1990s; nevertheless, digital music first moved online in a significant way only in 1999 with the launch of the Napster centralized file-sharing service. There were major flaws with the early attempts to offer downloadable music: Napster\(^5\) and Grokster\(^6\) were based principally on piracy, while recording industry efforts such as “MusicNet” and “pressplay” never achieved wide use and, in addition, were attacked as risking a recording industry monopoly over not just the songs, but technological development as well.\(^7\)

\(^5\)A&M Records, Inc. v. Napster, Inc., 284 F.3d 1091 (9th Cir. 2002).


\(^7\)A typical complaint was that the ventures were “[a] blatant monopoly . . . allowing them to control the price, the technology, and the use of the music being downloaded.” Kelly Donohoe, MusicNet & PressPlay: To Trust or Antitrust?, 2001 DUKE L. & TECH. REV. 39 (2001), at http://www.law.duke.edu/journals/dltr/articles/2001dltr0039.pdf. A federal district judge reviewing these ventures at an early stage said, “[e]ven if it passes antitrust analysis, it looks bad, sounds bad, smells bad.” John Borland, Jim Hu & Rachel Konrad, Music Industry’s Plans Spark Concern, C/NET NEWS.COM (Oct. 19, 2001), at http://news.com.com/2100-1023-274676.html. The Department of Justice opened an
it battled the music pirates, the music industry suffered huge losses, including a 25% drop in sales from 2001 to 2002, which could be measured in the billions of dollars. Reviewing that bleak picture, the head of the Recording Industry Association of America said in 2002, “I wish I could tell you that there is a silver bullet that could resolve this very serious problem. There is not.”

There was no silver bullet – there was, however, a little white box called the Apple iPod. The iPod was not an immediate success. When Apple announced the iTunes music service in January 2001, it was a software service without a device to match, and it worked only with Apple’s computers. It took Apple almost a year to ship the first iPods, in late fall 2001, and again, iPods worked only with Apple’s products. Sales were small. Apple did not offer the first PC-compatible iPod until July 2002, and even then the devices worked only with Apple’s preferred FireWire port, not the USB 2.0 ports that are far more common on PCs, and the PC-compatible iPods connected only to the MusicMatch music service, not Apple’s iTunes. Compatibility problems plagued the PC-iPod and hurt its sales. So by

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early 2003 – four years after the launch of Napster – there still was no clear legal, consumer-friendly solution. Many were trying, including Microsoft, which announced in March 2003 that it was entering the market with its “Media2Go” portable video and audio players, but no one had achieved real success.

The real revolution began in April and May 2003 when Apple unveiled the “third generation” iPods, which were directly compatible to USB 2.0 ports, and provided software to offer the same capability to older models. Apple also made all the iPods work with iTunes. These changes were a reaction to the discipline of the market – customer complaints and unsatisfactory sales – and once they were implemented, the reward was swift: suddenly, iTunes passed the mark of one million songs downloaded. In June 2003, Apple sold its one-millionth iPod, and in September 2003, iTunes downloads passed the 10 million song mark. In January 2004, Apple introduced the iPod mini, and several variants followed; online music had truly arrived. But Apple was not the only game in town. Apple’s success was a rising tide that lifted many boats, creating what one commentator has called “the iPod effect,” meaning that it proved a concept that others quickly imitated:

With the proven success of Apple, the digital download gold rush began. The Big Five [record labels] began licensing their content to a wide number of entities in the United States and abroad, removing many restrictive music licensing terms . . . . A vast array of companies including Amazon, BuyMusic.com, MTV, Wal-Mart, Coke, Dell, Microsoft, Musicmatch,
Woolworth’s, Virgin Music, Yahoo, Starbucks, and even Oxfam now boast digital music download services for PCs.\(^9\)

So there you have it. There was a history of an intractable problem, characterized by rampant piracy and declining legal sales. After some missteps, Apple’s iTunes solved these problems: legal sales boomed; competition against the largest players – the recording industry and Microsoft – increased; the recording industry dropped many restrictive licensing terms; and consumers can now choose from a number of music services and music playing devices, not just the iPod (devices from Dell, iRiver, SanDisk, Sony, and others already exist, and Microsoft recently announced another push for a rival to the iPod, the “Zune”\(^{10}\)). Apple nonetheless enjoys the lion’s share of sales. You might think that by creating a product to which consumers have flocked of their own free will and by mitigating the piracy problem, Apple would be cheered for pioneering greater access to music. But you would be wrong. Apple is cheered by many, but by no means all.

B. The “Dominance” and “Interoperability” Attack on Apple iTunes


Apple is now under assault in a number of jurisdictions on the grounds that iTunes is too dominant and does not “interoperate” with devices other than iPods.\textsuperscript{11} One recent law, for example, may require sales of music or video to operate across a wide range of devices and creates a government body that can require a digital music provider to turn over information relating to its “technological measures” to the extent needed for interoperability with other devices. Some consumer protection agencies have announced that they are considering imposing similar measures through lawsuits.\textsuperscript{12} Interestingly, the interoperable song format that is advocated – MP3 – is a compressed format of generally lower fidelity than iTunes files. So what consumer harm do these regulatory bodies seek to address?

One theory is that consumers are locked into buying songs only from the iTunes service and that they will have to pay too high a price for iTunes songs. But there are two problems with this theory. First, consumers can upload other formats (CD-ROMs and MP3 files) to Apple’s devices, so they do not have to buy from iTunes. And while it is true that Apple’s digital rights management (DRM) software ensures that the first recording of a song downloaded from iTunes can only play on an Apple device, consumers can re-record an iTunes song in an MP3

\textsuperscript{11}\textit{See} Thomas Crampton, \textit{For Apple, Europe Becoming a Tougher Customer}, \textit{Int’l Herald Trib.}, July 17, 2006, at 8.

\textsuperscript{12}\textit{Id.}
format and play it on other devices; in sum, it is hardly clear that they are locked in. Second, it appears that Apple has been depressing per-song prices, not raising them. A senior attorney from the Electronic Frontier Foundation, a proponent of the access faction who served as Grokster’s lawyer before the Supreme Court, made the following claim:

The [record] labels are pretty much locked into a system developed by Apple . . . They can’t even raise prices beyond 99 cents per song – Steve Jobs simply said ‘No.’ 13

That sounds like a benefit to consumers.

Another theory is that Apple is selling songs on the cheap but devices on the dear, and consumers are hurt because they are locked into buying the same expensive devices in the future. The cheap songs/expensive device model may indeed be Apple’s strategy. But this type of business model has been criticized in the past because the cheap product was the one that was sold first – think cheap razors and expensive replacement blades or cheap printers and expensive replacement ink.14 Apple’s model is the opposite: consumers buy the expensive iPod device first, then have the option – not the obligation – to use the free iTunes software and buy the cheap iTunes songs.

A third theory is that, darn it, “information just wants to be free.” That quote is so much in use on the Internet that I could not pin down its original source. Wikipedia attributes it first to a participant at a computer hacker’s conference in 1984. In any event, this argument is not based on competitive effects and consumer welfare. Information may want to be free, but information creators want to be paid – they will not create without rewards. Indeed, the difficulty of protecting digital information against easy, unlawful misappropriation underscores the need for measures to protect one’s investments.

The fourth theory is that Apple may not be hurting consumers, but it is hurting competitors. Apple’s products are so successful that competitors want in on the party and see Apple’s property as the easiest way to get a piece of the pie. Let’s examine this one in a little more detail.

Antitrust law protects competition, not competitors. There are real costs to using antitrust law to protect competitors rather than competition. There is the problem of deterring innovation by the target of the “dominance” attack: if a firm knows it will have to share its intellectual property or be managed by a committee

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16 Brooke Group Ltd. v. Brown & Williamson Tobacco Corp., 509 U.S. 209, 224 (1993) (“It is axiomatic that the antitrust laws were passed for ‘the protection of competition, not competitors.’” (quoting Brown Shoe Co. v. United States, 370 U.S. 294, 320 (1962))).
of government regulators, it may not innovate in the first instance. Or, just as likely, it will reduce its further innovation once the product has arrived on the market – either because its returns are diminishing, or because its personnel are forced to spend their time playing defense against the regulators, rather than playing innovation offense in the marketplace.

And there is another problem, perhaps a larger and more pernicious one: if the government is too willing to step in as a regulator, rivals will devote their resources to legal challenges rather than business innovation. This is entirely rational from an individual rival’s perspective: seeking government help to grab a share of your competitor’s profit is likely to be low cost and low risk, whereas innovating on your own is a risky, expensive proposition. But it is entirely irrational as a matter of antitrust policy to encourage such efforts. Rather, rivals should be encouraged to innovate on their own – to engage in leapfrog or Schumpeterian competition. New innovation expands the pie for rivals and consumers alike. We would do well to heed Justice Scalia’s observation in *Trinko*, that creating a legal avenue for such challenges can “distort investment” of both the dominant and the rival firms:

Compelling such firms to share the source of their advantage is in some tension with the underlying purpose of antitrust law, since it may lessen the
incentive for the monopolist, the rival, or both to invest in . . . economically beneficial facilities.\textsuperscript{17}

Importantly, letting competition in the market drive technological development does not necessarily mean less “access.” The market has already disciplined Apple: remember, the iPod and iTunes originally worked only with Apple machines and FireWire ports, but Apple responded to consumer demand and opened up its technology to work on PCs and USB 2.0. The videotape standards struggle between VHS and Sony’s Betamax provides another example: when Sony tried to keep tight control over its proprietary Betamax technology, the marketplace swiftly declared VHS the winner. Market discipline can be a powerful force.

My purpose today is not to benefit Apple Corporation. Apple can defend itself. Indeed, I have not undertaken an investigation of Apple’s activities. But Apple provides a useful illustration of how an attack on intellectual property rights can threaten dynamic innovation.

C. Dominance and Single Firm Conduct: Some General Principles

I said that I would suggest some general principles for applying antitrust analysis in dominance investigations. I start by acknowledging that the analysis of unilateral conduct is one of the most difficult issues under debate in the antitrust

community today; so much so, in fact, that the Department of Justice and the Federal Trade Commission are holding a series of hearings this year with a view toward improving the state of our knowledge in this area. In my remarks to open that conference, I set forth six general principles to keep in mind:

First, individual firms with monopoly power can act anticompetitively and harm consumer welfare, and we should seek to identify and prosecute such conduct;

Second, mere size does not demonstrate harm to competition or a violation of the antitrust laws; the proper focus of antitrust law is on anticompetitive conduct and effect, not just size or market share;

Third, mere injury to a firm does not itself show that competition has suffered; indeed, a firm’s inability to garner sales may indicate no more than the superiority of its competitors’ products;

Fourth, both consumers and the business community benefit from clear, administrable, and objective rules; ambiguous rules or rules depending on future unknown events can chill businesses from undertaking procompetitive conduct, such as cutting prices, investing, and innovating;

Fifth, we should construe Section 2 of the Sherman Act to avoid chilling procompetitive conduct because efficiencies are hard to measure and false positives easy to find, and every time a firm is kept from engaging in aggressive conduct because it fears an unnecessarily expansive interpretation of the antitrust laws, competition is harmed; and

Sixth, we should not act unless we can describe a clearly procompetitive, administrable remedy. ¹⁹

To these I would add, in the context of a dominance claim against a firm that obtains high market share through superior technology and innovation, a few more specific points:

- We should apply greater skepticism when the complaint about a dominant firm comes almost exclusively from rivals, not consumers, and where the remedy would deprive consumers of a choice.

- We should increase that skepticism when the complaining parties engage in forum shopping, failing to make their case before the first, most obvious jurisdiction or government body before taking their case elsewhere.

- We should avoid involving the government in the detailed re-engineering of products produced by private firms, under the guise of antitrust policy; we should question any claim that government regulators are more competent than private firms and consumers to choose the “best” design for a product, particularly when the “best” design must evolve rapidly to meet changing consumer demands.

As a final consideration in this regard, in a globalized economy, antitrust authorities must be careful to consider the geographic scope of their actions. As the Antitrust Division advocated and the Supreme Court recognized in its 2004 Empagran decision, antitrust enforcement that reaches alleged harm outside a

country’s own borders “creates a serious risk of interference with a foreign nation’s ability independently to regulate its own commercial affairs.”20 That risk is sometimes manageable, but it would be inappropriate for enforcement efforts against a global firm in one jurisdiction to effectively foreclose a choice of technology in another. To take a specific example, one jurisdiction might have the right to require Apple to strip its iPods of certain functionality, say, the higher fidelity of Apple’s proprietary iTunes format. It is one thing for a jurisdiction to deny the benefits of innovation to its own consumers, but it is entirely another thing to seek to deny those benefits to consumers elsewhere.

III. The Importance of Process Integrity and Compliance

I have spent the last few minutes inveighing against certain kinds of government orders that would damage competition and harm consumer welfare. I turn now to a topic that at first blush might seem unrelated: process integrity. The topic is broader than I have time to cover, so I will focus on compliance issues. I will discuss four guiding principles and their application in three situations this past year.

The compliance process should be guided by four principles:

First, antitrust authorities should ensure that any order is procompetitive, administrable, and clear enough to put the defendant on fair notice of what is required;

Second, persons subject to the order must comply, even during an appeal;

Third, all parties should periodically review the order and, where appropriate, request that it be updated to ensure that the order continues to serve the interests of competition and consumer welfare; and

Fourth, if violations occur, there should be a penalty, but one that is reasonable in light of the particular circumstances.

The Department of Justice has put these principles into practice at least three times just this year. The first example is a consent decree involving Rolex Watch U.S.A. Under a 1960 civil decree, Rolex had agreed to restrictions on its policies regarding the use, resale, and pricing of watch parts purchased from Rolex. The Department found that, despite this order, Rolex had created a written policy of refusing to sell watch parts to independent watch repair facilities or watchmakers unless the watchmakers agreed that they would not use the parts in any watch that had non-Rolex parts or accessories. Rolex’s policy also prohibited watchmakers from reselling spare watch parts and from certain types of pricing. When this policy came to the Department’s attention, the Department concluded that the policies violated the terms of the 1960 decree. Rolex agreed to a settlement that included a $750,000 payment. The Department also determined, however, that
market conditions and antitrust law had changed so that the consent decree was no longer warranted. Rather than continue with an outdated decree, and notwithstanding the recent violations by Rolex, the Department recommended that the Court terminate the original 1960 decree.21

The second example is a gun-jumping matter. Qualcomm and Flarion announced a merger in July 2005 and closed in early 2006 after the Department of Justice declined to challenge the merger. As many of you know, the Hart-Scott-Rodino Act requires companies planning certain transactions to observe a mandatory waiting period before the parties merge. The Department learned that Qualcomm obtained operational control over Flarion without observing the waiting period. The companies’ merger agreement required Flarion to seek Qualcomm’s consent before undertaking certain basic business activities, such as making new proposals to customers, and Flarion also sought and followed Qualcomm’s guidance before making routine decisions, such as hiring consultants and employees. In April, the Department announced a settlement under which the parties agreed to pay a $1.8 million dollar fine. This was a significant fine, reflecting the important principle that merging parties must continue to operate

independently until the end of the premerger waiting period regardless of whether there is harm to competition. The penalty nevertheless represented a substantial reduction from the statutory maximum because the companies voluntarily reported the existence of gun jumping problems to the Department and took some measures to change their contract and their conduct.22

The third example is another consent decree violation, this time by the American Bar Association. In June 1995, the Department filed an antitrust lawsuit against the ABA, alleging that the ABA had allowed its law school accreditation process to be misused by law school personnel with a direct economic interest in the outcome of accreditation reviews. In 1996, the court entered an agreed-upon final judgment prohibiting the ABA from fixing faculty salaries and compensation, boycotting state-accredited law schools by restricting the ability of their students and graduates to enroll in ABA-approved schools, and boycotting for-profit law schools. The final judgment also required structural reforms and imposed compliance obligations. In Spring 2006, the Department concluded after an investigation that the ABA violated six structural and compliance provisions in the 1996 consent decree over an extended period of time. In a stipulation, the ABA

acknowledged the violations and agreed to reimburse the United States $185,000 in fees and costs incurred in the Department’s investigation. At the same time, notwithstanding the violations, the Department did not seek to extend the term of the decree, which expired earlier this year.

Defendants certainly are entitled to defend themselves zealously and pursue all legal avenues to challenge or appeal an order. While the order is in force, however, the integrity of the process demands compliance. That said, reasonableness is important. An unduly severe penalty – whether in the form of an excessive fine or the extension of a decree that has outlived its purpose – can chill other procompetitive conduct and undermine the public confidence and support that is so vital to effective antitrust enforcement.

IV. Conclusion

In closing, let me return to my theme of the complementarity of intellectual property and antitrust. Intellectual property is a true property right, and as the Supreme Court has observed, “like any property right, its boundaries should be clear. This clarity is essential to promote progress, because it enables efficient

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investment in innovation.”24 Profit is the reward that encourages firms to invest, innovate, and compete through the mechanism of dynamic efficiency, and in the words of an eminent American jurist, Learned Hand, “[t]he successful competitor, having been urged to compete, must not be turned upon when he wins.”25 To antitrust lawyers, an ex post facto tinkering with a firm’s product designs may be an interesting intellectual exercise, but “[b]usiness does not run this way”26: firms making investment decisions seek clear, predictable rules as to how the intellectual property and antitrust regimes will function together – or interoperate. If a successful firm’s rivals believe that a different product would create more consumer welfare, antitrust policy should encourage them to create that product – they should not find government regulators willing to eliminate the need to design it at all.


25 United States v. Aluminum Co. of Am., 148 F.2d 416, 430 (2d Cir. 1945).

26 Masoudi, supra note 2, at 3.