U.S. COPYRIGHT OFFICE

HEARING ON EXEMPTION TO PROHIBITION ON

CIRCUMVENTION OF COPYRIGHT PROTECTION SYSTEMS FOR

ACCESS CONTROL TECHNOLOGIES

SECTION 1201 (DIGITAL MILLENNIUM COPYRIGHT ACT)

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22	(Appearances continued on the next page.)	

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1	PROCEEDINGS	
2	MR. CARSON: We're going to get started now.	
3	I take great pleasure in welcoming you to the final	
4	day of the hearings on our rulemaking with respect to	
5	exemptions from the prohibition on circumvention of	
6	technological measures that control access to works	
7	protected by copyright.	
8	We have a pretty full schedule today. We're	
9	going to have four topics, four separate sessions to	
10	deal with those four topics. Our first topic has to	
11	do with a proposal for literary works distributed	
12	electronically that contain digital rights management	
13	and/or other access controls which either prevent the	
14	enabling of the book's read-aloud functionality or	
15	which interfere with screen readers or other	
16	applications or assistive technologies that render the	
17	speech and specialized formats and are legally	
18	obtained by blind or other persons with print	
19	disabilities, as such persons are defined in	
20	section 121 of title 17, United States Code, or are	
21	legally obtained by authorized entities, as described	
22	in such section, distributing such work exclusively to	

7 such persons. 2 We have two panelists this morning on this proposal. Mark Richert of the American Foundation for the Blind, and Melanie Brunson of the American Council for the Blind. With that, I will let whichever of you wishes 6 to go first -- you have up -- to speak. You have up to ten minutes to present your case. 9 MR. RICHERT: Thank you so much. This is Mike Richert, American Foundation for the Blind. And 10 if I can, just a point of personal privilege. If 11 12 folks who are on the dais would just introduce 13 themselves and their titles, please. MR. CARSON: I beg your pardon? I'm sorry. 14 15 Someone was whispering in my ear, so I didn't hear 16 you. 17 MR. RICHERT: If you all could just introduce yourselves and your titles so that we know who's on 19 the dais. 20 MR. CARSON: Yes. David Carson, general 21 counsel of the copyright office. 22

MR. KASUNIC: Rob Kasunic, deputy general

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counsel. 2 MR. REED: Chris Reed, senior advisor for policy special projects in the office of the register. MR. RICHERT: Excellent. Thank you so much. 4 Well, thanks, again, for allowing us to 5 present today. We presented before you several years 6 ago on a similar topic, and the exemption that we are 7 proposing is somewhat different from the one which the copyright office and the librarian of Congress has 10 granted in the past. 11 But we are back again because the problems 12 that we flagged in the past persist. And there are 13 two areas. I don't really want to capitulate all of the points that we tried to make in our written 14 testimony that we, at the American Council of the 15 16 Blind, American Foundation for the Blind did jointly, 17 but just to flag a couple of them. There are 18 technological issues that prevent people who are blind 19 or visually impaired, people with print disabilities, 20 as defined by law, that inhibit their ability to 21 access the text of e-books that they have lawfully 22 purchased or otherwise obtained. But there are also

- 1 limitations in terms of those entities that try,
- 2 admittedly their best, to provide access to people
- 3 with disabilities.
- We're living in a era now where, thankfully,
- 5 more and more publishers are beginning to recognize
- 6 the need for access to their works. And, yet, we are
- 7 at very much the infant stages of that effort. People
- 8 are still struggling with how exactly to ensure
- 9 accessibility. Sometimes they get it right, and many
- 10 times they don't get it right. So there are really
- 11 two things that we're concerned about.
- 12 We're concerned about the persistence of
- 13 these digital rights management controls which often
- 14 get in the way of a screen reader or other access
- 15 technologies. But we're also concerned about this
- 16 exemption and the need for it because sometimes the
- 17 accessibility that is attempted to be put in place
- 18 does not do the trick. It is inadequate to our needs.
- So, in short, what we're hoping to do is to
- 20 have the copyright office and the librarian again
- 21 recognize an exemption that would do two things, that
- 22 would allow individuals who are blind or visually

- 1 impaired or those with print disabilities to
- 2 circumvent controls when it's necessary to do so in
- 3 order to actually get access to the text; and to also
- 4 have the ability for especially organizations,
- 5 so-called authorized entities working on our behalf,
- 6 to get around -- to circumvent such controls when it's
- 7 necessary to improve the accessibility that may or may
- 8 not be built into an e-book's functionality.
- 9 When I talk about improving accessibility,
- 10 let me just give one illustration, and I'm sure
- 11 Melanie will correct the mess that I make as I do
- 12 this. But, you know, right now it seems as though
- 13 people want to provide access by simply hitting a
- 14 button that allows the book to read to you. It dumps
- 15 speech basically into your lap or into your ear
- 16 without much control over how that material is
- 17 presented.
- 18 And particularly in the education context --
- 19 and, you know, I'll just put in a shameless plug for
- 20 the following panel. We're going to be talking, among
- 21 other things, about the applicability of all of this
- 22 stuff in the education world. And I want to say that

- 1 particularly for folks in higher ed, it's particularly
- 2 necessary to really be able to interact in a robust
- 3 fashion with the -- with e-books. And simply to dump
- 4 text out without any real sophisticated way to
- 5 navigate through the text, to be able to search on key
- 6 words, et cetera, maneuver around -- those kinds of
- 7 features are extremely important.
- 8 So we don't see that kind of robust
- 9 accessibility, and we want to make sure that, when
- 10 individuals, and particularly when organizations,
- 11 authorized entities, are improving accessibility for
- 12 us, that the sometimes rather draconian provisions of
- 13 the DMCA don't come crashing down to prevent that from
- 14 happening.
- That's my summary statement, and we look
- 16 forward the dialogue and any questions you may have.
- 17 MR. CARSON: Ms. Brunson.
- 18 MS. BRUNSON: Thank you. Mr. Richert has
- 19 described the concerns, the problem that we face
- 20 pretty thoroughly. I don't have much to add at this
- 21 point except to expand upon the one aspect of controls
- 22 that creates, I think it's fair, to say the largest

- 1 headache for our community. I am a representative of
- 2 a membership organization that is representative --
- 3 whose members come from all across the country and, in
- 4 fact, we have several members in foreign countries.
- 5 The American Council of the Blind is the organization
- 6 that I represent, and I think it's fair to say that
- 7 one of the issues that arouses the most passion within
- 8 our membership is the issue surrounding the ability to
- 9 read books.
- 10 And the one issue that I think causes the
- 11 most consternation is the measures that, for whatever
- 12 reason, disable the ability to access digital books by
- 13 reading them out loud. That has ramifications for our
- 14 membership that people do not have -- do not, frankly,
- 15 have nearly as much sympathy for as they do
- 16 anti-piracy measures that are more directly related to
- 17 simply preventing unauthorized use.
- 18 And so there is -- there is a huge
- 19 distinction in the minds of the average reader with a
- 20 print disability when you talk about that particular
- 21 issue as opposed to simply measures that are aimed at
- 22 prohibiting piracy. We are here primarily because the

- 1 digital book advent has the potential to level the
- 2 playing field for our community in terms of access to
- 3 education, in terms of access to employment and in
- 4 terms of our ability to participate in, frankly, the
- 5 cultural and the community life of this society that
- 6 we live in.
- 7 However, we find ourselves, in spite of that
- 8 potential, being frustrated by the measure of -- the
- 9 number of measures that, once again, create obstacles
- 10 for us simply because nobody at any level of the
- 11 process -- well, I shouldn't say nobody because, as
- 12 Mr. Richert indicated, publishers are beginning to
- 13 look at access. But we have still, in the vast
- 14 majority of cases, whether it's because the players
- 15 won't read out loud or because the books have measures
- 16 built into them that prohibit use with screen readers
- 17 or read-aloud functions on those limited number of
- 18 players that do provide them -- we have, once again,
- 19 obstacles to our use of a technology that could very
- 20 easily make it possible for us to be on a level
- 21 playing field with people who do not possess the same
- 22 print reading disabilities that we do.

- 1 So what we're seeking is that degree of
- 2 flexibility within the copyright law that would enable
- 3 access to those works. And we are -- we are extremely
- 4 interested in seeing that this happens. And I too am
- 5 happy to answer questions and -- but that is the
- 6 conclusion of my statement.
- 7 MR. CARSON: Thank you very much. Let me
- 8 start. In reading your proposal, one comment struck
- 9 me -- a couple struck me, actually, but the one that I
- 10 want to point to right now is a comment where you
- 11 said, We want to be on the record that is the
- 12 experience of people who are blind and visually
- 13 impaired that the shutting out of people with print
- 14 disabilities from full and fair access is indeed a
- 15 rampant problem, but this is not our burden of proof.
- 16 What is your burden of proof in this
- 17 proceeding?
- 18 MR. RICHERT: I think it's -- this is Mark.
- 19 I think it's to illustrate that this problem that we
- 20 have brought before the copyright office persists.
- 21 And I think we have done that in our remarks,
- 22 especially our written testimony, flagging both the

- 1 limitations of the accessibility that some groups are
- 2 trying to build in, and also the persistence of the
- 3 digital rights management controls that are still
- 4 blocking access.
- 5 I think, as we've tried to say in our written
- 6 statement, even one instance where that happens -- and
- 7 we know that it happens more than in one instance --
- 8 is a reason for requiring an exemption to be put in
- 9 place because we -- it's not about if it's 10 percent
- 10 or 50 percent of the market. It's about whether I,
- 11 whoever I may be, who have lawfully obtained a
- 12 particular work, can get access to it. And if I can
- 13 get access to it by getting around digital rights
- 14 management controls, I should be able to do that
- 15 without incurring the civil or criminal penalties.
- 16 MS. BRUNSON: The difficulty that we face is
- 17 that you don't know whether or not you're going to be
- 18 able to access a work until you have put your money
- 19 down and purchased it and then tried to use it. And
- 20 if you're on the job, it can cost you your job. If
- 21 you're in school, it can cause you to fail a class.
- 22 And you have no alternative.

- 1 MR. CARSON: What does our record tell us
- 2 with respect to the extent to which electronic books
- 3 are not available in accessible formats?
- 4 MR. RICHERT: I think in previous
- 5 proceedings -- again, this is Mark. In previous
- 6 proceedings, we have provided the copyright office
- 7 with examples of controls -- works where controls have
- 8 either intentionally or inadvertently blocked access.
- 9 In the last proceeding, we were told that we didn't
- 10 present enough of those.
- 11 What we've tried to do in this proceeding in
- 12 proposing a slightly different and, we think,
- 13 hopefully clearer exemption is to take a more global
- 14 view and to say, rather than handing over a few
- 15 isolated instances -- five cases, 50 cases, 500
- 16 cases -- that, in fact, we are taking a more global
- 17 approach to indicate that, yes, we know from the
- 18 experience, the stated experience of blind and
- 19 visually impaired men and women across the country,
- 20 that controls still pose a problem, and even when
- 21 accessibility is attempted, there still may very well
- 22 be a need to improve on that accessibility, and if

- 1 that means we need to get around such controls to make
- 2 that happen, we should be able to do that.
- 3 MR. CARSON: Can you explain to us the reason
- 4 why the proposed exemption that you have here differs
- 5 from that which has been granted in the past? Maybe
- 6 describe the different features and the reasons for
- 7 them.
- 8 MR. RICHERT: Okay. This is Mark. I'll take
- 9 this first, and then, Melanie, if you want to help
- 10 support or modify, that would be great. I think there
- 11 are principle ways that it's different. We understood
- 12 the previous exemption granted to indicate that if a
- 13 version of a work, a slightly different version of a
- 14 work was available -- so let's say you had a Kindle
- 15 version of a book and a Nook version of the same work,
- 16 that access to one of those works, if it's prevented
- 17 by digital rights management controls, if the other
- 18 product is available, then the exemption wouldn't
- 19 apply. I didn't explain that very adequately, but I
- 20 think you get what I'm saying. We understood that
- 21 that was the purpose and, in fact, the letter and the
- 22 spirit of that previous exemption.

So we -- we recognize that the DMCA 1 specifically says that exemptions that you all grant are only to be allowed in those instances where another version or an identical version of the work isn't reasonably available, and we simply don't 5 believe if an e-book, for example, is available on those two platforms, but one of them happens to pose accessibility troubles, that somehow the user with print disabilities must use the other platform -- we 10 simply reject that as -- as a matter of public policy. 11 The other area in which this exemption 12 differs is that we are explicitly allowing authorized entities to do the work and to circumvent controls 13 when the purposes of that exemption are -- are 14 15 intended so that we can streamline the process of 16 providing access. It's an awful lot to assume that an 17 individual consumer with print disabilities is going 18 to have the technological wherewithal to pull off 19 circumvention. So we believe that an authorized 20 entity who is doing work on behalf of folks with print 21 disabilities should be -- should be entitled to avail itself of an exemption along the lines we're talking 22

- 1 about.
- 2 MR. CARSON: Okay. So there's two
- 3 differences, basically. Let's turn to the first one
- 4 first. And what I heard you say was you think, as a
- 5 matter of public policy, it makes no sense to limit
- 6 the scope of the exemption to cases where there is no
- 7 format that is accessible. That's my words, but I
- 8 think that's essentially what you're saying.
- 9 MR. RICHERT: Well, the only thing I would
- 10 add to that would be I think the language of DMCA is
- 11 good when it talks about not reasonably available.
- 12 And I think we need to give some meaning to that. The
- 13 whole point of this exemption is to make sure that the
- 14 person with print disabilities can get access to the
- 15 thing that he or she has purchased or otherwise
- 16 lawfully obtained.
- 17 We shouldn't be expecting, we don't believe,
- 18 people to have to use -- they may not want to
- 19 patronize another vendor, for whatever reason.
- MS. BRUNSON: They may not be able to
- 21 patronize because those formats are not necessarily
- 22 interchangeable in terms of usability.

- 1 MR. CARSON: Let's explore that because
- 2 the -- you've appeared before us several times, and
- 3 this is, I believe, the first time we've heard you
- 4 articulate this public policy argument. And I don't
- 5 recall hearing any difficulties from you in the past
- 6 about the way the past exemptions have been set up.
- 7 So what's changed? Has the marketplace
- 8 changed? Has the way that people use e-books changed?
- 9 Or have you just changed your mind on what the good
- 10 public policy is?
- 11 MR. RICHERT: I think that the short answer
- 12 to that is that the language of the last exemption was
- 13 crafted in an environment where there weren't the same
- 14 kinds of -- we were trying to get as much as we could
- 15 possibly get, but I'm quite certain, because I think
- 16 you and I had that exchange at the last thing on this
- 17 public policy discussion -- if yours truly wasn't as
- 18 articulate then as I needed to be, then hopefully we
- 19 can make up for lost time now.
- It most assuredly is not a change of mind.
- 21 It's a question of trying to make sure we get it
- 22 right.

MR. CARSON: Chris. 1 2 MR. REED: Could you help us -- I want to continue that point on the marketplace. Can you help us understand the platforms that are out there? 5 mentioned the three major ones in your comments, the iBookstore platform, the Kindle platform and the Nook 6 platform. I understand Kindle, for example, you can 7 actually read Kindle books on devices other than the Kindle itself. What implications, if any, does that have for the accessibility of Kindle content? 10 11 MR. RICHERT: Well, I'll try to take a stab 12 Being a public policy nerd means that I 13 don't get to know the innards of, you know, technology as much as others in our organization do, but I'll 15 take a stab at it. 16 You know, a lot of folks who are blind or 17 visually impaired -- I'll just limit my comments to 18 that -- are accessing Kindle content obviously not on 19 the Kindle, but using a PC that's specifically adapted 20 for the purpose of trying to create access. 21 accessibility is not nearly as robust as it needs to be or could be, but what it shows is that a person 22

- 1 with print disabilities then is required to be
- 2 grounded to a PC or otherwise wander around with a
- 3 laptop or otherwise find some way -- in other words,
- 4 they're not able to use the content on an equal basis
- 5 with others.
- 6 I don't know if that's your question, but I
- 7 think -- you know, the bottom line is we're in an era
- 8 now where we have content than can be displayed on a
- 9 variety of devices. We fear that even in such an
- 10 environment, these copyright protections may block --
- 11 and our experience is that they continue to block
- 12 access in a number of instances.
- 13 MS. BRUNSON: If I may just follow up on
- 14 that. What we've -- part of the issue is the
- 15 access -- the book itself, and part of the issue is
- 16 the extent of an individual's disability. If someone
- 17 has the ability to read large print, they have more
- 18 options than someone who has no ability to read print
- 19 off of a device's screen. And if one is limited to
- 20 the -- accessing the book through a text to speech
- 21 screen reader, then one has very limited options even
- 22 with regard to the Kindle books. You can only use

- 1 them on some Kindles.
- The PC app is really, as Mr. Richert
- 3 indicated, the most usable. But there again, you
- 4 don't have the access to the navigation features that
- 5 a sighted user would have using that book on either
- 6 the Kindle or the PC app because the screen reader
- 7 functionality is only limited to basic navigation and
- 8 you don't have the ability to do the searches and the
- 9 flipping to particular pages and things that the
- 10 sighted user, not hampered by the read-aloud function,
- 11 has access to.
- 12 Someone -- there is also a Kindle application
- 13 that is usable on iOS devices, but that, as I
- 14 understand it, is not usable by someone who needs to
- 15 read the book out loud. It is usable by someone who
- 16 can use it to read large print, but it is not usable
- 17 by someone who needs to read it out loud.
- 18 So there again, those are -- those are --
- 19 there are -- that form of access to e-books does have
- 20 serious limitations. And all of the other
- 21 functionalities have such -- you know, they're not
- 22 universally accessible. So if one were to make the

- 1 argument that, well, a Kindle book is usable, that
- 2 would be -- so we don't need to grant access to an
- 3 iBook, then what you're simply saying is so that means
- 4 someone who can read it using large print would be
- 5 able to use it, but someone who is blind may be stuck.
- 6 MR. REED: How much of that dynamic is a
- 7 function of the device versus the book file or the
- 8 content itself?
- 9 MS. BRUNSON: It is my understanding that it
- 10 is a combination of the Kindle app and the book
- 11 itself.
- MR. REED: Is that true for other major
- 13 platforms, distribution platforms of book content?
- 14 MS. BRUNSON: Yes, I believe so. Because --
- 15 for instance, iBooks that are created and sold in the
- 16 iBookstore one can use with greater ease than one can,
- 17 for instance, Kindle books, unless you're using a PC.
- 18 MR. REED: That's actually where I wanted to
- 19 go next because you've mentioned broadly two types of
- 20 accessibility. One is navigation and navigability for
- 21 those who are blind or visually impaired. And the
- 22 other is the ability to enable the read-aloud

- 1 function. In your comments you've mentioned that the
- 2 iBooks are accessible, and I'm just wondering, does
- 3 that mean they have -- all books available through the
- 4 iBookstore have both of those accessibility features
- 5 enabled?
- 6 MR. RICHERT: This is Mark. It's probably an
- 7 exaggeration to say that every book in the
- 8 iBookstore -- I wouldn't want to swear to that. But
- 9 their accessibility is generally certainly, you know,
- 10 the best of that which is out there.
- 11 Part of the challenge that we have is that
- 12 not all people with disabilities are the same. And
- 13 certainly someone who, for example, may have
- 14 significant learning disabilities that fall within the
- 15 definition of print disabilities may require certain
- 16 accommodations, if I can use that term here, to the
- 17 content that might not otherwise be useful for other
- 18 folks.
- 19 So we know, for example, our colleagues in
- 20 the autism world are struggling with, you know, how
- 21 can we, for someone who has significant attention
- 22 issues or otherwise needs to have content adapted in a

- 1 particular way, if we render that material or that
- 2 content in a way that's most useful for them and, in
- 3 order to do that, we need to get around copyright
- 4 protections in order to produce essentially a work
- 5 that makes sense for them, you know, we need to be
- 6 able to do that.
- 7 So I think to folks who are blind or visually
- 8 impaired, and I've only used personally the iBooks
- 9 stuff, to use the technical legal term, myself, you
- 10 know, a little bit, you know, I think their
- 11 accessibility is -- is generally pretty good. But I
- 12 also wouldn't want to try, for example, to use, in an
- 13 iBook format, a, you know, significant legal or
- 14 scientific or other technical work that would require
- 15 me to do a significant amount of navigation because
- 16 those controls just simply don't exist there.
- 17 MR. REED: On the marketplace point, we've
- 18 seen some evidence that the marketplace is evolving
- 19 rather rapidly in this regard. I think just today,
- 20 actually, there was an article about Macmillan
- 21 dropping DRM on a number of its science fiction titles
- 22 and launching an e-book store to sell those directly.

- 1 What impact does that have, in any, on your need for
- 2 this exemption?
- MR. RICHERT: This is Mark. I'll start with
- 4 that and ask my colleague to finish it for me. I
- 5 think it's an excellent sign. It shows, I think, that
- 6 people are beginning to open up to the realities of
- 7 the marketplace. The fact that there's movement is --
- 8 does not guarantee that a student, over the course of
- 9 the next three years, or an employee or someone,
- 10 frankly, doing a government position or in any
- 11 context -- it doesn't matter; we can hypothesize any
- 12 of those scenarios -- will encounter a book that has
- 13 technological measures in it which may prevent the use
- 14 of screen readers or other access software. And when
- 15 that happens -- not if, but when -- and that
- 16 individual, or an authorized entity, can make access
- 17 possible, they should be able to do that without
- 18 incurring the wrath of the DMCA.
- 19 And so I think the fact that we -- you know,
- 20 we're not asking for a perpetual exemption. No doubt
- 21 in three years we'll be back if there continues to be,
- 22 you know, persistent problems, particularly on the

- 1 accessibility piece of this, not just the straight up
- 2 or down can I get in, but how well can I use the
- 3 content?
- 4 But certainly over the course of the next
- 5 three years, as the marketplace continues to evolve,
- 6 there's going to be a continuing need for this
- 7 exemption.
- 8 MR. REED: With respect to your proposed
- 9 exemption language, you had mentioned that one of the
- 10 major differences is the authorized entities, and I'm
- 11 just wondering if -- do you really need that to get to
- 12 where you want to go? I mean, if you had an exemption
- 13 that simply enabled circumvention for the purpose of
- 14 making accessible -- inaccessible content accessible,
- 15 which is -- which requires an underlying use, assuming
- 16 the underlying copyright use is authorized under
- 17 section 121, do you need the exemption language to be
- 18 written that specifically?
- 19 MR. RICHERT: This is Mark. I'll start with
- 20 it, and again, Melanie is also a lawyer, so she can
- 21 bail me out. You know, I think -- it's like anything
- 22 else. If it's not written in black and white, there

- 1 may be a question as to whether or not it's
- 2 permissible.
- 3 You know, over the course of the last, let's
- 4 see, six, seven years with the advent of the --
- 5 so-called the Bookshare.org effort, Benetech's
- 6 Bookshare.org service, which a number of blind and
- 7 visually impaired folks, particularly students, have
- 8 really found useful -- it's one of several, of course,
- 9 in our field, but it's really quite a popular service.
- 10 You know, I know that the publishing world
- 11 has been particularly spooked by, okay, well, if
- 12 Bookshare can do it, where does this end? Who is
- 13 really entitled to produce materials in accessible
- 14 format? It's not the sort of thing where I think
- 15 people who are in the publishing and, you know,
- 16 rights owners' world would be comfortable with unless
- 17 we make it clear that, you know, we're not talking
- 18 about anybody being able to do this. We're talking
- 19 about individuals who qualify and their
- 20 representatives who are defined, we think, fairly
- 21 strictly by law.
- 22 So, you know, smarter lawyers -- all of whom,

- 1 I'm sure, are up on that dais -- than yours truly at
- 2 least may find that's not necessary. If that proves
- 3 to be the case, then that's fine. I think we're just
- 4 concerned that it shouldn't just be up to an
- 5 individual to try to figure out, particularly in the
- 6 technological area, how to make it happen, that if
- 7 there are folks with some sophistication who can help
- 8 make access possible, they should have the ability to
- 9 do it.
- 10 MS. BRUNSON: I think that for -- you know,
- 11 the sense that we've gotten in our discussions with
- 12 publishers has been that they would feel better about
- 13 individual -- about authorizing organizations doing it
- 14 than individuals anyway, because they would rely on
- 15 the good faith of that authorized organization as
- 16 being a representative of someone who is, in fact,
- 17 qualified and eligible to do it, as opposed to
- 18 individuals.
- 19 Certainly, you know, we -- we have been
- 20 proposing the idea that it should be allowable by
- 21 either because it needs to be possible for someone who
- 22 purchases a book directly from the marketplace, but it

- 1 also is a fact in our community that for a lot of
- 2 people their first -- the first place that they go for
- 3 access to materials is an authorized entity and,
- 4 therefore, they look to those entities to provide the
- 5 expertise when there's a obstacle that needs to be
- 6 overcome in order for them to get access.
- 7 MR. CARSON: On this authorized entity issue,
- 8 one thing that just occurred to me during the course
- 9 of this discussion was I think the language you've
- 10 proposed might change the situation significantly in
- 11 the following respect. There may be a flaw in this,
- 12 because it just occurred to me, but I'll think out
- 13 loud.
- 14 With respect to the exemptions that we have
- 15 had up until now, I think it's the case that in order
- 16 for someone to take advantage of this exemption, they
- 17 would have to have obtained a lawfully made copy,
- 18 which means either they bought it or maybe somebody
- 19 gave it to them, assuming the first sale doctrine
- 20 applies in that environment, which is a very
- 21 interesting question that I'm not going to try to
- 22 resolve today.

MR. RICHERT: Right. Right. 1 Right. 2 MR. CARSON: So at the very least, the publisher gets whatever the publisher's price is, and the person exercising the exemption gets the benefit 5 of actually being able to read what they paid for. Not a bad deal for both sides, one might think. 6 7 MR. RICHERT: Right. 8 MR. CARSON: Looking at the language you 9 proposed today, I think what it means is that that's 10 not going to happen. And the reason I think that's what it means, but maybe I'm wrong, is that when you 11 look at that second prong, what that will allow is it 12 will allow authorized entities that obtain one 13 legitimate copy to make as many copies as they like 14 15 under section 121 and distribute them for free, 16 meaning that that's money out of the pockets of the 17 publishers. 18 Now, maybe we don't care, maybe we don't 19 I imagine publishers care. But I just like to 20 think through the ramifications of that and figure out 21 if that's going to happen, should be we comfortable 22 with it? And if we're not comfortable with it, should

- 1 we try to build something in here that offers some
- 2 protection for publishers in terms of their getting
- 3 their piece of the action here.
- 4 MR. RICHERT: This is Mark. A very fair
- 5 point. I think -- it certainly was not our intent to
- 6 create a situation where publishers are not getting
- 7 paid for what it is that they have done. We do
- 8 feel -- this is admittedly an emotional issue, not so
- 9 much a legal point or even policy point, but we often
- 10 get really frustrated with publishers who say, give me
- 11 my chunk of change even though I haven't bothered to
- 12 lift a finger to make sure that you can get access to
- 13 my material. So I think we need to balance those two
- 14 sort of competing points.
- 15 How to do that in that language -- I mean, if
- 16 that's a way to indicate that an authorized entity
- 17 isn't just freely distributing multiple copies of the
- 18 same thing -- of the same work to a bunch of folks
- 19 without providing an appropriate royalty, you know,
- 20 purchasing the -- you know, the work certainly makes
- 21 some sense.
- 22 I think we want to make sure that what is

- 1 being paid to the publisher is the fair price of that
- 2 book in an inaccessible world, which is to say if I
- 3 need access in a way that they can't provide, I should
- 4 not be paying, for example, for a more expensive audio
- 5 book format, some -- more expensive large print
- 6 format. What the publisher or rights owner should be
- 7 compensated for is the price of the mainstream book
- 8 available to the general public because that's the
- 9 standard against which we would measure fairness.
- 10 MS. BRUNSON: I also want to add a caveat to
- 11 this discussion, and that is that one of the reasons
- 12 for proposing a situation that would allow multiple
- 13 uses is that if I am a person who doesn't have a
- 14 disability, I can go to any public library and buy --
- 15 or borrow that book without any regard for whether or
- 16 not the publisher is going to make any money off of my
- 17 borrowing it as opposed to buying it.
- 18 And so I think what we also need to do is to
- 19 be mindful of the availability -- the right of people
- 20 with disabilities to have the same opportunity that a
- 21 sighted person would have to do that.
- MR. CARSON: In the current marketplace, is

- 1 there anything akin to library borrowing for
- 2 accessible e-books?
- 3 MS. BRUNSON: Bookshare.
- 4 MR. CARSON: Bookshare does sort of lend them
- 5 out, but not permanently?
- 6 MS. BRUNSON: Well, actually, no. Bookshare
- 7 doesn't lend them out. You're right. The Bookshare
- 8 allows you to download them. Of course, there is the
- 9 NLS, the National Library Services download site which
- 10 allows you -- there again, though, they don't require
- 11 you to send them back. Unlike the traditional
- 12 borrowing of the cassettes and the Braille volumes
- 13 which you do have to send back, when you download
- 14 them, you do have to -- you don't have to return them.
- MR. CARSON: So, again, just thinking out
- 16 loud --
- 17 MS. BRUNSON: So, no, there really isn't.
- 18 MR. CARSON: -- if you're going to
- 19 accommodate something like those two practices, what
- 20 you're really doing, for better or worse, is telling
- 21 any person who qualifies under section 121 to receive
- 22 such works, is you're telling them, well, you're not

- 1 going to have to pay because there are ways for you to
- 2 get them from authorized entities without paying a
- 3 dime. Is that accurate?
- 4 MS. BRUNSON: Well, I guess it is. You know,
- 5 the only other thing that I was thinking is I think
- 6 NetLibrary still does have a process whereby, after
- 7 you've had a book for so many weeks, it goes away.
- 8 And some of those are now available in accessible
- 9 format.
- 10 MR. CARSON: Another issue -- maybe it's not
- 11 an issue; I have no idea -- but, again, sort of I'm
- 12 issue spotting, I think, with the authorized entities.
- 13 Is there any history -- maybe there isn't; I don't
- 14 know, but is there any history with respect to copies
- 15 that are in the hands of authorized entities being --
- 16 sort of appearing on the open market, being used in
- 17 ways that they aren't intended so that they actually
- 18 cut into the legitimate market to sighted persons for
- 19 the works, and is that something we need to be
- 20 concerned about if we extend this so that the
- 21 authorized entities themselves have the ability to
- 22 exercise this?

- 1 MR. RICHERT: This is Mark. I am aware of no 2 authorized entity under that Chafee amendment,
- 3 section 121, that has been accused of allowing that to
- 4 happen or has obviously been the subject of a suit,
- 5 you know, so I hear -- we hear rumors of individual
- 6 students who love to share things with other people.
- 7 Quite frankly, if they did, they would be outside of
- 8 not only the old exemption that you all granted
- 9 before, but outside the one that we're proposing.
- 10 So I don't necessarily think that if that
- 11 were a dynamic, that it's something that can't be
- 12 reached under the existing law, even with our
- 13 exemption in place. But I'm aware of no authorized
- 14 entity, certain none of the major ones -- there's
- 15 really only a handful, frankly, that are playing in
- 16 this space. I mean, we've mentioned several of them
- 17 today. There are a couple of others we haven't
- 18 mentioned. But this is not something that we have
- 19 heard either out in hinterland or from publishers
- 20 directly.
- 21 MS. BRUNSON: And I think authorized entities
- 22 are conscious of the precariousness of their position

- 1 and don't want to violate the good faith standard that
- 2 they're operating under, and so I think they have been
- 3 very careful. I believe that -- Bookshare we keep
- 4 talking about, but they actually have notices on their
- 5 website that, if they catch you, they will suspend you
- 6 and not allow you to donate anything -- or to download
- 7 anything anymore.
- 8 And they claim, although I'm not aware of the
- 9 specific instances, that they have actually booted
- 10 people out of the system, and those folks are no
- 11 longer eligible to come back and download books. So
- 12 I'm not aware of any specific instances, but they have
- 13 been very vocal about their willingness to protect the
- 14 privilege that they have.
- 15 And I think that all of -- the National
- 16 Library Service has the same statements on their
- 17 sites, and they will go after you if they catch you.
- 18 I did hear from the National Library Service of an
- 19 instance where a couple of years ago somebody -- I
- 20 believe they said from the UK -- got a book from
- 21 someone in the U.S. and advertised a copy of it on
- 22 eBay, and they got tracked down and both ends of that

- 1 transaction got taken to task very quickly, and that
- 2 book was not on eBay.
- 3 So I think it's fair to say that everybody,
- 4 you know, in the community of users, as well as in the
- 5 authorized entity community, is mindful of the
- 6 rights holders' interests and the nature of the impact
- 7 on them of what we're proposing. And nobody wants
- 8 those -- nobody wants anyone's interest to be abused.
- 9 And so we're perfectly happy with efforts to
- 10 be as diligent in pursuing abuses as possible because
- 11 I think that we are only talking -- we're serious
- 12 about only wanting authorized users.
- MR. CARSON: Now, section 121, which is the
- 14 section under which these authorized entities are
- 15 operating, requires that the copies distributed under
- 16 section 21 (sic) be in specialized formats exclusively
- 17 for use by blind or other persons with disabilities.
- 18 Is that a limitation that you intend to operate in the
- 19 context of this exemption?
- 20 MR. RICHERT: Yes. Yes, it is. They would
- 21 have to -- they would have to -- an authorized entity
- 22 that's participating in the exemption that we're

		40
1	proposing would have to conform with section 121.	
2	MR. CARSON: I think we're done.	
3	MR. RICHERT: Well, thank you very much.	
4	MS. BRUNSON: Thank you.	
5	MR. RICHERT: Appreciate the time.	
6	MR. CARSON: Our next panel is scheduled to	
7	start at 10:30, so we have a 40-minute break.	
8	(Whereupon, a short recess was taken.)	
9	MR. CARSON: All right. I think we're ready	
10	to get started. This is the second session of the day	
11	on classes 9A through 9D. We have a number of	
12	witnesses here. I'm going to read them in the order	
13	they appear on the agenda, and I'm assuming that's the	
14	order we will go in, but if there's any okay. The	
15	person who is first on the agenda says yes, so he	
16	likes that idea.	
17	Okay. So Blake Reid from the Institute for	
18	Public Representation. Dr. Christian Vogler from	
19	Gallaudet University. Andrew Phillips from the	
20	National Association for the Deaf. Mark Richert,	
21	again, his second appearance this morning from the	
22	American Foundation for the Blind. Dean Marks on	

- 1 behalf of AACS LA. Steve Metalitz, representing joint
- 2 creators and copyright owners. And Laura (sic) Kinney
- 3 of the Motion Picture Association of America.
- We don't have microphones in here, nor do we
- 5 have captioning, so I would ask the witnesses to
- 6 please project because we do have a transcript, and I
- 7 am told we had some difficulty in the first panel
- 8 hearing, so we have even a bigger panel here, so
- 9 please speak up so that everything you say can be
- 10 heard.
- 11 I'm David Carson, general counsel of the
- 12 copyright office.
- 13 MR. KASUNIC: Rob Kasunic, deputy general
- 14 counsel.
- MR. REED: Chris Reed, senior
- 16 advisor for policy and special projects,
- 17 office of the register.
- MR. CARSON: With that, let's proceed.
- 19 Mr. Reid.
- 20 MR. REID: Good morning. Members of the
- 21 copyright office, thank you so much for the
- 22 opportunity to be here with you today, and thank you

- 1 so much to the staff of the Library of Congress for
- 2 helping to accommodate us throughout the past several
- 3 weeks. My name is Blake Reid. I'm a staff attorney
- 4 at the Institute for Public Representation at
- 5 Georgetown Law. IPR represents Telecommunications for
- 6 the Deaf and Hard of Hearing, Incorporated, TDI, and
- 7 we filed the proposed classes of works that are the
- 8 subject of today's hearing on behalf of TDI, Gallaudet
- 9 University and the Participatory Culture Foundation.
- 10 The exemptions we propose center on adding
- 11 and improving accessibility features to video
- 12 programming, and specifically close captions for
- 13 people who are deaf and are hard of hearing, and video
- 14 description for people who are blind or visually
- 15 impaired.
- 16 I'm joined here by my colleagues, Andrew
- 17 Phillips from the National Association of the Deaf,
- 18 Mike Richert from the American Foundation for the
- 19 Blind, and Dr. Christian Vogler, the director of the
- 20 technology access program at Gallaudet University.
- 21 A quick overview of our plans. I think we're
- 22 going to go in just a very slightly different order

- 1 than you mentioned, Mr. Carson. Mr. Phillips will be
- 2 sharing the specific perspective of the deaf and hard
- 3 of hearing communities regarding the proposed
- 4 exemptions. Dr. Vogler will give a short audio-visual
- 5 demonstration of the types of difficulties that people
- 6 with disabilities often face watching video
- 7 programming with missing or poor quality accessibility
- 8 features. And, finally, Mr. Richert will be sharing
- 9 the perspective of the blind and visually impaired
- 10 communities.
- 11 But I want to begin with a brief overview.
- 12 What brings us here today is copyright, and
- 13 specifically the need for relief from the
- 14 anti-circumvention measures of the Digital Millennium
- 15 Copyright Act. Those concerns stand against a larger
- 16 backdrop which is the nearly century long battle to
- 17 recognize the civil right of the more than 48 million
- 18 Americans who are deaf or hard of hearing, and the
- 19 25 million Americans who are blind or visually
- 20 impaired to access video programming on equal terms
- 21 with captions and video description.
- I'm really glad that our colleagues from the

- 1 motion picture industry are here today. Hollywood has
- 2 actually played a really crucial role in the
- 3 development of accessible video. It was more than 60
- 4 years ago that Emerson Romero, who is the deaf brother
- 5 of Hollywood actor Cesar Romero, who you might know as
- 6 Batman -- the Joker from the Batman TV show --
- 7 beginning splicing subtitles in between the frames of
- 8 new films in an effort to make them accessible.
- 9 In 1958, Congress addressed video
- 10 accessibility for the first time by requiring the U.S.
- 11 Department of Health, Education and Welfare to procure
- 12 caption and distribute films to deaf viewers. In
- 13 1990, following a star-studded parade of Hollywood
- 14 stars before Congress, including the Oscar-winning
- 15 deaf actress Marlee Matlin, Congress recognized the
- 16 important role of consumer electronics manufacturers
- 17 in facilitating video accessibility. They passed the
- 18 Television Decoder Circuitry Act which, for the first
- 19 time, required all televisions 13 inches or larger to
- 20 include closed captioning decoders.
- 21 In passing the Telecommunications Act of
- 22 1996, Congress first recognized the importance of

- 1 making content itself accessible, giving the FCC broad
- 2 authority to require closed captioning of video
- 3 programming and ordering the agency to conduct an
- 4 inquiry into video description.
- 5 I hope my industry colleagues will indulge me
- 6 in poking a little bit of fun. During the FCC's
- 7 initial rulemaking on closed captioning, the Recording
- 8 Industry Association of America sought an exemption
- 9 from the closed captioning rules for music videos on
- 10 the grounds that many song lyrics are unintelligible.
- 11 The RIAA cited the 1963 Congressional investigation
- 12 into the lyrics of Louie Louie which the FBI initially
- 13 suspected were obscene and subversive, but after a
- 14 thorough forensic investigation concluded were
- 15 indecipherable at any speed.
- 16 Undaunted, the FCC pressed forward and
- 17 implemented closed captioning and video description
- 18 rules. Unfortunately, a lawsuit led by the Motion
- 19 Picture Association succeeded in striking down the
- 20 video description rules in the D.C. Circuit.
- 21 In 2010, Congress finally enshrined video
- 22 accessibility as a full-fledged civil right, enacting

- 1 the 21st Century Communications and Video
- 2 Accessibility Act, the CVAA. Among other things, the
- 3 CVAA required the FCC to reinstate its video
- 4 description rules for television that had been struck
- 5 down, extended captioning requirements to certain
- 6 Internet-delivered video, and updated the Decoder
- 7 Circuitry Act by requiring a variety of modern video
- 8 devices to include the ability to display closed
- 9 captions.
- Now, two years after the passage of the CVAA,
- 11 we stand at a crossroads. On the one hand, we see
- 12 tremendous progress. A significant amount of
- 13 television content is now captioned, just one month
- 14 from today, television broadcasters and cable
- 15 companies will have to comply with the commission's
- 16 reinstated video description rules and provide a small
- 17 amount of video-described programming. And at the end
- 18 of September, the FCC's rules will begin to require
- 19 captioning of some Internet protocol-delivered video
- 20 for the first time.
- 21 And we want to acknowledge the efforts of our
- 22 industry colleagues to bring accessible video

- 1 programming into the mainstream. Many members of the
- 2 industry have recognized the tremendous social,
- 3 political, economic and participatory opportunities
- 4 that access to programming affords their viewers, and
- 5 we appreciate that they've taken some of the steps
- 6 necessary to achieve universal accessibility.
- 7 Unfortunately, the industry's efforts have
- 8 been too limited and too slow for the tens of millions
- 9 of Americans with hearing and visual disabilities.
- 10 And, worse, they've been accompanied by a concerted
- 11 massive lobbying effort to undercut Congress' efforts
- 12 to recognize video accessibility as a civil right.
- 13 With content creation and distribution firms insisting
- 14 that providing accessibility measures is too
- 15 difficult, too expensive, and even if some cases,
- 16 undesirable, the following gaps remain in the law.
- 17 The CVAA does not require closed captions or
- 18 video descriptions of any fixed media-based video,
- 19 such as DVDs or Blu-Ray discs, or video description of
- 20 any Internet-delivered video programming. The
- 21 Consumer Electronics Association, which includes among
- 22 its members some of the founders of AACS LA and I

- 1 believe DVD CCA, recently petitioned the FCC to repeal
- 2 its rule that requires DVD and Blu-Ray players to even
- 3 be capable of displaying closed captions that are
- 4 voluntarily included by content creators.
- 5 The CVAA does not require closed captions for
- 6 any Internet-delivered program that has not first been
- 7 shown on television with captions. Deaf and hard of
- 8 hearing consumer groups met in person with Ms. Kinney
- 9 and representatives from Viacom, Disney and NBC
- 10 Universal last December, and we asked the industry to
- 11 commit to a voluntary time frame for captioning online
- 12 exclusive content. They refused. Instead, they
- 13 proposed a voluntary timeline by which they would
- 14 caption some small subset of programming within two
- 15 years, four years, six years and even eight years.
- 16 And by that time, I should note, we will be well
- 17 beyond the three-year time frame for this proceeding,
- 18 the next proceeding, and hopefully we'll have
- 19 concluded the proceeding following that. I think that
- 20 would be the seventh proceeding.
- 21 Thanks to industry pressure, the FCC's new IP
- 22 captioning rules do not require captioning of any

- 1 video clips, quote/unquote, of IP-delivered
- 2 programming. Just last month, the Digital Media
- 3 Alliance, whose membership includes major video
- 4 distributors, such as Amazon.com, Apple and Microsoft,
- 5 filed for a nearly two-year delay in the FCC's IP
- 6 closed captioning rules. And, finally, a
- 7 long-standing FCC rulemaking to address widespread
- 8 quality problems that make captioned programming
- 9 effectively inaccessible stands dormant in the face of
- 10 industry opposition.
- Now, underpinning these efforts to stall and
- 12 reduce the scope of accessibility rules is an
- 13 increasing insistence by industry members that
- 14 copyright law should prevent anyone but the owner of
- 15 the copyright in a video from making the video
- 16 accessible by adding or improving closed captions or
- 17 video description. Despite the reality that improving
- 18 and adding accessibility features to content is, at
- 19 most non-infringing fair use, which I don't believe
- 20 the joint creators opposed in their brief, and not to
- 21 mention the preemptive effect of numerous pieces of
- 22 accessibility legislation on the copyright act,

- 1 industry members have repeatedly and successfully
- 2 argued to federal agencies and courts that requiring
- 3 accessibility impermissibly implicates copyright,
- 4 leaving the copyright act and the DMCA dangling like a
- 5 Damoclean sword.
- 6 Because video is now distributed almost
- 7 exclusively with digital rights management, specious
- 8 claims of copyright infringement now necessarily
- 9 implicate the anti-circumvention measures of the DMCA
- 10 as well. Just last month, Netflix, one of the largest
- 11 American distributors of online video, insisted to a
- 12 federal court in Massachusetts that it could not
- 13 caption its content because, among other things, doing
- 14 so would not only require Netflix to commit copyright
- 15 infringement, but to, quote, decrypt digital rights
- 16 management protections that accompany video files, a
- 17 separate violation of the Digital Millennium Copyright
- 18 Act.
- The effects of copyright and DMCA liability
- 20 on video accessibility are severe and likely to worsen
- 21 over the following three years. First, the DMCA and
- 22 copyright provide an excuse for video programming

- 1 distributors to avoid accessibility obligations.
- 2 Second, and more seriously, concerns over
- 3 DMCA liability create a chilling effect for license
- 4 distributors of video that are interested in adding
- 5 and improving accessibility features to better serve
- 6 their customers, but cannot do so without risking
- 7 liability under the DMCA for circumventing access
- 8 controls.
- 9 Third, these concerns create a chilling
- 10 effect for third-party technologists, researchers,
- 11 academics and others, like Dr. Vogler, who possess
- 12 cutting edge ideas for the next generation of
- 13 captioning, video description and other accessibility
- 14 technologies, but cannot successfully develop or
- 15 implement them because they and their employers cannot
- 16 afford to assume the serious financial risk of a
- 17 lawsuit under the copyright laws of the DMCA.
- 18 These concerns underscore the need for the
- 19 copyright office to grant the proposed exemptions to
- 20 permit accessibility efforts to go forward and ensure
- 21 that the DMCA does not stand as a barrier to
- 22 accessibility.

- 1 We thank you for your time and consideration
- 2 of these very important issues. We look forward to
- 3 your questions and to a productive discussion with our
- 4 industry colleagues. And with that, I'd like to yield
- 5 the floor to Mr. Phillips.
- 6 MR. PHILLIPS (via interpreter): I'm Andrew
- 7 Phillips, the policy counsel for the National
- 8 Association of the Deaf. On behalf of the NAD, thank
- 9 you for this opportunity to address the issue of
- 10 exemptions to the anti-circumvention measures to
- 11 facilitate the addition and improvement of captions of
- 12 digital video programming distributed via the Internet
- 13 protocol or on fixed media.
- 14 The NAD represents over 48 million Americans
- 15 who are deaf or hard of hearing and experience
- 16 communication access limitations due to disability. I
- 17 want to focus on the quantity and quality of access to
- 18 DRM protected programs for individuals who are deaf or
- 19 hard of hearing in our country and to demonstrate the
- 20 critical need for these exemptions.
- Now, on quality (sic), I remember growing up
- 22 in the 1980s and the 1990s and having to check the

- 1 back of every video rental for the special closed
- 2 captioning symbol to be sure that the video was
- 3 accessible, and having to ask my family to pick a
- 4 closed captioned television show when we all gathered
- 5 around the family TV. It was frustrating for me and
- 6 my family as, oftentimes, shows or movies were not
- 7 accessible. And being a good family, they wouldn't
- 8 watch these inaccessible shows or movies when I was
- 9 around.
- 10 Of course, there were times when my family
- 11 really wanted to watch a special movie or some
- 12 breaking news that was not accessible, and so my
- 13 mother would try her best to interpret the program for
- 14 me in sign language. So imagine her sitting beside
- 15 the TV, interpreting the O.J. Simpson car chase or the
- 16 latest Disney movie at my brother's birthday party.
- 17 Fortunately for me, my family and my mother,
- 18 who is now hard of hearing, a substantial amount of
- 19 programming on television is close captioned, and many
- 20 mainstream fixed-disc movies are now accessible.
- 21 However, just as accessible programming has become the
- 22 norm for Americans who are deaf and hard of hearing,

- 1 we have seen an explosion in online video programming,
- 2 the vast majority of which are inaccessible.
- 3 The NAD and other disability organizations
- 4 worked hard to pass the 21st Century Communications
- 5 and Video Accessibility Act of 2010, also known as the
- 6 CVAA, in order to make programs distributed via
- 7 Internet protocol accessible. However, there are many
- 8 gaps in the law, such as zero coverage of IP-delivered
- 9 programs that are never shown on television with
- 10 captions, and the FCC exemption for clips taken from
- 11 captioned TV programs and then shown online.
- 12 Every day I read the news online at CNN.com
- 13 or local news websites, and I am unable to enjoy the
- 14 vast majority of their video clips. Often, the news
- 15 clip will be the only source of information on a
- 16 particular topic with no accompanying written story or
- 17 text. This is incredibly frustrating and a cruel
- 18 reminder of those childhood days when I was barred
- 19 from accessing many television shows and movies.
- The gaps in the CVAA go beyond video clips
- 21 and include a large amount of programming only
- 22 available online. Several online video programming

- 1 distributors, including Hulu.com and Netflix, now have
- 2 Internet-only shows not available on television in the
- 3 United States. In fact, a January New Yorker article
- 4 explained that the future of television programming is
- 5 online, and more and more content will never make it
- 6 to the television screen, thus remaining beyond the
- 7 reach of the CVAA.
- 8 So how will individuals who are deaf or hard
- 9 of hearing access these online-only shows? Will their
- 10 families have to try to interpret these programs or
- 11 just skip them altogether? Or will third parties be
- 12 able to finally add captions?
- 13 This is why we need these exemptions, so that
- 14 these third parties, who are not the video programming
- 15 owners, can freely add captions. With new captioning
- 16 technologies and growth in the captioning industry,
- 17 the cost of captioning has greatly decreased. We also
- 18 need an exemption for fixed media, as many
- 19 non-mainstream programs on fixed media continue to be
- 20 inaccessible.
- 21 For instance, the NAD has received complaints
- 22 from many parents and schools about the lack of access

- 1 to educational videos shown in schools. A leading
- 2 captioning software company told us that many schools
- 3 have tried to contact them about trying to caption the
- 4 videos themselves, but recognize that there are
- 5 copyright infringement concerns.
- 6 Now, related to quality, these exemptions
- 7 will not only allow for the addition of captions, but
- 8 will allow third parties to improve the quality of
- 9 captions. This means that editing spelling for
- 10 accuracy and improving the timing of the captions to
- 11 reduce or eliminate delays.
- 12 We have witnessed an increase in live
- 13 programming of news broadcasts, sporting events and
- 14 talk shows. These live shows are captioned real time,
- 15 so naturally the captions are a bit delayed by a few
- 16 seconds. Often these programs are later put online
- 17 with the delayed captions still in place. The
- 18 exemption will allow video programming distributors
- 19 and other third parties to align captions so that
- 20 they're timely and simultaneous.
- 21 Many Americans who are deaf or hard of
- 22 hearing, especially those who are older, also have

- 1 visual disabilities and need large clear captions.
- 2 There is a growing market of video programming
- 3 software that allows users to customize the captions
- 4 by increasing the font size or improving the contrast.
- 5 We need to make sure that these controls are legally
- 6 available to individuals who are deaf or hard of
- 7 hearing and also visually impaired. Being able to
- 8 customize the appearance of captions is similar to a
- 9 hearing person being able to adjust the volume, bass
- 10 and treble in a program.
- 11 So, in closing, the CVAA Senate Report noted
- 12 that the information divide is leaving people with
- 13 disabilities behind, and that people with disabilities
- 14 suffer disproportionately higher rates of unemployment
- 15 and poverty. We need to bridge this information
- 16 divide and allow third parties to add or improve
- 17 captions to video programs by exempting these classes
- 18 of works from the anti-circumvention provisions of the
- 19 DMCA. Thank you. And, Dr. Vogler.
- DR. VOGLER (via interpreter): Good morning.
- 21 I would like to thank you all for allowing me to
- 22 testify today. My name is Christian Vogler, and I'm

- 1 the director of the technology access program for
- 2 Gallaudet University. Our group conducts research
- 3 into accessible technologies, and we're very excited
- 4 about the possibilities of improving access to videos
- 5 for deaf and hard of hearing and blind and deaf-blind
- 6 individuals. Unfortunately, the anti-circumvention
- 7 clause of the DMCA prevents us from doing so.
- 8 I would like to give you an idea of what the
- 9 current accessibility barriers are that people with
- 10 disabilities face as they watch and play back videos.
- 11 There are a total of seven different clips that I'll
- 12 be showing you, and I'll show you some of what they
- 13 have to do to overcome these barriers.
- 14 The first of the three video clips are shown
- 15 from the perspective of a deaf or hard of hearing
- 16 person having no audio. The next three are shown from
- 17 the perspective of a blind person with video only, or
- 18 no video. In the final video, we show our vision of
- 19 what accessibility can be like.
- 20 The video clips are taken from -- excerpt of
- 21 a movie called The Little Shop of Horrors. It is in
- 22 the public domain. We would have preferred to pick

- 1 another example, but at the risk of violating the
- 2 DMCA, we chose the one that we did.
- 3 So moving to the first video, this first
- 4 video is a clip of what a deaf person might experience
- 5 with no captions.
- 6 (Video played.)
- 7 DR. VOGLER: So can anyone tell me what
- 8 happened in this video? Because I personally have no
- 9 idea.
- Now, the next video does have captions, but
- 11 it's really poor quality in terms of the contrast, and
- 12 also it's not in sync with the video. So take a look
- 13 at that.
- 14 (Video played.)
- DR. VOGLER: Okay. So, again, I'm still
- 16 confused, because I'm not certain who said what.
- 17 Also, you want to note that the font was very small
- 18 and the contrast is very poor. And it may look like
- 19 an exaggeration, but this is very much a similar kind
- 20 of situation that we individuals have to view, not
- 21 having the best contrast or control over font. So
- 22 again, having control over the font size and color

- often makes it much more readily available to us. 2 The next video shows good captions with good synchronization, and also the caption are positioned showing clearly who is saying what. 5 (Video played.) DR. VOGLER: So again, we're controlling the 6 size and the color of the captions in this one. 7 8 (Video played.) 9 DR. VOGLER: So this really helps us control -- and this is not controlled, though, if we 10 have subtitles, only if you're using captions. 11 that one was much more clear, right? 12 13 Now, the next one I'm going to show you is a videotape from the perspective of a person who is 15 blind. The first video, you'll be able to hear the 16 dialogue, but there's no description in terms of 17 what's actually happening.
- 18 (Video played.)
- 19 DR. VOGLER: So with this video, the blind
- 20 person has no idea what's happening. And,
- 21 unfortunately, this is a very common situation that
- 22 many people who are blind actually have every day.

Now, this next one we're going to add the 1 video descriptions, but the descriptions aren't as good as they could be. (Video played.) DR. VOGLER: So you probably noticed how the 5 description and the dialogue overlapped one another, 6 making it very difficult to understand what's actually 7 8 happening. So the next one I'll show you where the 9 dialogue and actual description are not happening 10 simultaneously. 11 (Video played.) 12 DR. VOGLER: So now there was a clear 13 distinction between what was happening, but unfortunately, this kind of exceptional videotape is 14 15 very rare to find these days. And it's not able to be 16 improved upon because of the DMCA being as it is. 17 So I've shown you a number of videotapes that are not accessible to individuals who are deaf and 19 blind. Individuals who are deaf and blind oftentimes 20 rely on a Braille display, so what I'd like to do 21 now -- for you now is to show you a clip that includes 22 both the video, the audio description, the captioning,

- 1 and the text is actually being captured from the audio
- 2 description and shown on a Braille display. And
- 3 you'll see that here at the bottom of the screen. You
- 4 see the audio on the top line with the letters being
- 5 displayed, and underneath that is the Braille output
- 6 and then, underneath that, is the audio description of
- 7 what's happening -- or the video description as to
- 8 what's happening.
- 9 (Video played.)
- 10 DR. VOGLER: So this kind of video right now
- 11 is virtually impossible to find today. Industry and
- 12 content owners probably would not implement these
- 13 kinds of ideas because the market is so very small.
- 14 We would love to follow up with this kind of
- 15 research and make more videos more accessible to
- 16 people with disabilities, but due to the
- 17 anti-circumvention clause of the DMCA, we are unable
- 18 to do so. Thank you very much. I'd like to now turn
- 19 it over to Mark Richert.
- 20 MR. RICHERT: Thank you so much. When Andrew
- 21 began his presentation by talking about how, when he
- 22 was growing up in the '80s and '90s, he was deprived

- 1 of television, it reminded me of how, once upon a
- 2 time, the members of the Congress, several of them
- 3 anyway, voiced a lot of opposition to the fact that
- 4 money was being spent to caption and, in some
- 5 instances, describe the film -- the show that many of
- 6 you may remember, Baywatch. And I just want to
- 7 testify, and make sure this is on the record, that I'm
- 8 extremely disappointed that Baywatch was never video
- 9 described for me. I feel deprived.
- 10 But be that as it may, I think what that
- 11 attitude sort of illustrates is that clearly there are
- 12 attitudes out there about whether or not people with
- 13 disabilities need all, most, some, full access to the
- 14 kind of programming that everyone else takes for
- 15 granted and may not be responsible enough to handle.
- 16 The communications act, as amended talks in
- 17 terms of what broadcasters, multi-channel video
- 18 programming distributors, others -- what their
- 19 responsibilities are with respect to providing
- 20 description and captioning, but I'm limiting my
- 21 remarks to video description now.
- What it doesn't get at and what we're

- 1 enlisting your help with today is to fill the gaps
- 2 where industry isn't expected to provide access to
- 3 programming, at least not expected in terms of what
- 4 the law currently requires.
- 5 With respect to video description, we're a
- 6 bit farther back even than our brothers and sisters in
- 7 deaf and hard of hearing world are in that the
- 8 communications act as amended provides for no video
- 9 description of IP programming, regrettably, but we
- 10 think even perhaps somewhat more significant than that
- 11 is the fact that there is virtually no video
- 12 programming used in educational settings that is
- 13 appropriately described and, therefore, made
- 14 accessible to folks who are blind or visually
- 15 impaired.
- This is increasingly, of course, becoming a
- 17 problem in that, in the educational settings,
- 18 certainly K through 12 -- it's has been for a while
- 19 there -- certainly in higher education the use of
- 20 audio-visual materials is increasing exponentially.
- 21 So what we are seeing is that when this material is
- 22 not made accessible through captioning and certainly

- 1 through description by the producer of the content,
- 2 nevertheless a child or a student of any age needs
- 3 still to have access. And in some cases, there are
- 4 actually legal obligations on the public schools or
- 5 institutions of higher education to ensure
- 6 accessibility, and yet the fact that copyright is in
- 7 place and restrictions are in place makes adapting
- 8 that video content very, very difficult.
- 9 I'll just point out one footnote in this
- 10 area. So often video description is seen as a
- 11 particular benefit to folks who are blind or visually
- 12 impaired, but to no other people generally, and
- 13 certainly to no other folks with disabilities. That's
- 14 simply not true. We're seeing more and more the
- 15 indication that video description is of tremendous use
- 16 to folks, for example, who are on the autism spectrum,
- 17 who though they may not need, as I might need, a
- 18 description of the young folks on Baywatch, they may
- 19 nevertheless need, whether it's in educational or
- 20 other settings, to have better information about the
- 21 expression of emotion, and that the provision of video
- 22 description for them, particularly if it's tailored

- 1 for that purpose, can be a tremendous benefit in
- 2 helping folks on the autism spectrum better appreciate
- 3 emotion. That's just one example.
- 4 But if folks like Dr. Vogler and others are
- 5 not able to perfect video description and other forms
- 6 of adaptation to meet folks' unique needs,
- 7 particularly in niche areas of the disability
- 8 community that might not be served at all by the
- 9 market, we need to be able to have the flexibility to
- 10 do that. So we ask you to support the exemptions that
- 11 we're proposing. Thank you.
- MR. CARSON: Thank you. By the way, I don't
- 13 know whether you've already given us a copy of the
- 14 audio-visual demonstration -- you have? Okay. Great.
- Dean, are you next?
- 16 MR. MARKS: Yes. Thank you. My name is Dean
- 17 Marks, and I'm with the AACS LA. AACS LA is the
- 18 licensing authority for the AACS technology, and that
- 19 is the Advanced Access -- sorry, I'm so used to
- 20 referring to it -- the Advanced Access Content System,
- 21 which is the DRM, the technical protection measure
- 22 that protects content on Blu-Ray discs.

- 1 And I'm appearing on this panel, and it's a
- 2 privilege to be here, to make two very basic points in
- 3 response to the reply comments filed in this
- 4 proceeding. First, the reply comments suggested
- 5 somewhat that AACS technology, along with other
- 6 content protection and DRM technologies, are offered
- 7 as a profit-making product for the founding companies
- 8 of these licensing organizations. And I want to state
- 9 for the record that that is not correct.
- 10 The AACS license states, and AACS LA has
- 11 always presented itself and always stated, including
- 12 in these proceedings, that it operates on a cost
- 13 recovery basis for the purpose of enabling the markets
- 14 for products and services that are supported by our
- 15 technology.
- 16 Second, and this is frankly the more
- 17 important point, I believe, in responding to our
- 18 comments filed in February, the AACS LA offer of a
- 19 license to the developers of accessibility
- 20 implementations was for a free license. Some of the
- 21 comments made it sound like we were offering that
- 22 license in order to profit from people with

- 1 disabilities, and that is not the case. We would
- 2 offer a free license, and the purpose would be to
- 3 enable those developers to work with the AACS
- 4 technology to develop compatible implementations to
- 5 enable accessibility programs and to add accessibility
- 6 features to interoperate with the normal playback of
- 7 AACS-protected Blu-Ray discs.
- 8 We would be happy to work with such
- 9 developers, such as Dr. Vogler, to make a free license
- 10 available and, further, to collaborate technically
- 11 with research and developers, such as Dr. Vogler, to
- 12 make sure these needs are met. AACS LA has a
- 13 technical committee with some very fine engineers, and
- 14 we would welcome the opportunity to work together.
- So that is why I'm appearing, to make those
- 16 two points, and I would be happy to answer any
- 17 questions the panel may have. Thank you.
- MR. CARSON: Thank you.
- 19 Steve, you're next.
- 20 MR. METALITZ: Good morning. I'm Steve
- 21 Metalitz with the law firm of Mitchell, Silberberg and
- 22 Knupp, and I'm here on behalf of seven national

- 1 organizations of creators and copyright owners. And
- 2 just to follow up on Blake's opening remarks, since
- 3 one of these organizations is the Recording Industry
- 4 Association of America, if anything I say is
- 5 unintelligible, you'll know why.
- 6 The joint creators and copyright owners do
- 7 oppose these proposed exemptions not because the
- 8 issues that are raised by them are not important; they
- 9 are important and, in fact, I would say they are
- 10 compelling, and the testimony this morning underscores
- 11 that. But our concern is we don't believe that the
- 12 proponents of the exemptions have satisfied the
- 13 standards that the Congress has laid down in this
- 14 proceeding and that the copyright office panel is
- 15 obligated to follow.
- 16 We've talked in many of the other panels
- 17 about two basic baskets of these criteria. First,
- 18 whether the use that would be made as a result of
- 19 circumvention is, in fact, non-infringing and, second,
- 20 whether there are alternatives readily available to
- 21 circumvention that would enable people to make that
- 22 use.

- 1 And I think the burden in this proceeding is
- 2 on the proponents on both of those points, and I would
- 3 submit they haven't met that burden in their
- 4 submissions they have made, nor in the presentations
- 5 this morning.
- 6 On the issue of whether the use is, in fact,
- 7 non-infringing, again, I would just first like to
- 8 clarify that the standard is not whether it's likely
- 9 to be non-infringing. I think that's a misreading of
- 10 the legislative history surrounding this statute.
- 11 It's a -- it's a higher standard. The "is likely to
- 12 occur" standard really refers to activities that take
- 13 place in the future and haven't occurred yet. That's
- 14 not really the main issue here, although obviously
- 15 it's a factor. But, in fact, non-infringing is a
- 16 higher standard.
- 17 And I think it's, first of all, important to
- 18 recognize that creating captions and creating video
- 19 descriptions in particular is creating a derivative
- 20 work based on a copyrighted work. So the question of
- 21 whether there's a defense to that -- if it's done
- 22 without the permission of the copyright owner, is

- 1 there a defense? And, of course, fair use is a very
- 2 logical place to look for that.
- 3 I'm not going to go through the whole
- 4 analysis here. I would just say, first of all, that
- 5 the assertion in the submission that this -- that
- 6 this -- that fair use is favored because this is
- 7 simply a matter of quotation I think mischaracterizes
- 8 what's involved here. Quoting an entire work is not
- 9 the type of quotation that is often referred to by the
- 10 courts as a paradigmatic fair use.
- And then the final issue, of course, is the
- 12 fourth factor of the fair use analysis: What's the
- 13 impact on the market for the work, potential market
- 14 for the work? And that's a -- I recognize that that
- 15 can be a complex issue. It is important to note that,
- 16 especially with regard to captioning -- and I think
- 17 Linda will talk about this as well -- there's a very
- 18 broad market here that extends far beyond the
- 19 hearing-impaired community. So I think that's a
- 20 factor that needs to be looked at carefully.
- 21 But it really brings me to next basket, which
- 22 is alternatives to circumvention. And our problem

- 1 here, based on the submission and based on the
- 2 testimony this morning, is I don't believe that -- I
- 3 would submit that the proponents haven't made the case
- 4 that they need to circumvent technological protection
- 5 measures in order to make the uses of captioning and
- 6 video deposition that they wish to make.
- 7 The -- I think Dean's remarks raise an
- 8 important point about whether some of the uses that
- 9 they wish to make could be accomplished through
- 10 agreement, through licensing, and free licensing, as
- 11 Dean pointed out, for at least some of the
- 12 technological protection measures involved.
- 13 I don't know that there's anything in the
- 14 record about whether the proponents have ever sought
- 15 such a license and whether they were able to obtain
- 16 it, but obviously, if they were able to do that, then
- 17 they wouldn't need to circumvent without authorization
- 18 because they would have authorization to do so for
- 19 these research purposes that Dean described.
- I think if you look through the submission,
- 21 it's very difficult to determine what type of -- why
- 22 circumvention is needed to make the uses that are --

- 1 that are sought. I'm not saying here that it's not
- 2 the case, but I just simply think the proponents
- 3 haven't made the case if it is there to be made.
- 4 Their first example is synchronization and
- 5 whether digital rights management, quote, may prevent,
- 6 unquote, access to the play head. Synchronization is
- 7 not, I wouldn't think, rocket science. It's a feature
- 8 that's -- timing of the play time of a disc, for
- 9 example, is a very commonplace feature. So I think
- 10 there needs to be more explanation about whether this
- 11 is an actual barrier that requires circumvention or
- 12 more of a theoretical one.
- 13 Several of the examples given -- and I guess
- 14 on pages 21, 22, 23 of the TDI submission -- is
- 15 that -- are for research and development of
- 16 technologies to extract captions from -- from a video.
- 17 Whether caption extraction software can be used to
- 18 enable the pass-through of captioning to an HD set is
- 19 another example that's given. And I think these go
- 20 very much to the point that Dean made. If the problem
- 21 is that researchers need to circumvent in order to
- 22 find non-circumventing methods of accomplishing this,

- 1 then the logical question is whether that permission
- 2 has been sought to -- whether a license has been
- 3 sought in order to obtain that, and really just
- 4 whether there has been -- whether cooperation rather
- 5 than, you know, the recognition of an exemption might
- 6 be more productive.
- 7 But, overall, I think it is important to --
- 8 for the proponents to meet their burden of showing
- 9 that, for the use they want to make, they have to
- 10 circumvent technological protection measures. And, of
- 11 course, since this -- it obviously isn't just about
- 12 the disc environment that AACS and the DVD CCA are
- 13 involved in. It's very -- this aspect of the
- 14 proceeding is very much oriented toward the online
- 15 environment and, as we've had other testimony
- 16 previously in this proceeding, there are quite a few
- 17 different technological protection measures used in
- 18 those environments. And I think, again, the burden is
- 19 on the proponents to show that those measures are
- 20 preventing them from making the use that they wish to
- 21 make.
- We've even heard testimony earlier in this

- 1 panel about captioning software that is available that
- 2 apparently allows people to make some of the changes
- 3 and improvements that are needed. So, again, I just
- 4 think the record doesn't, at this point, support the
- 5 proponents' claims.
- 6 The final point I'd like to make is that, as
- 7 we've stated on a number of other panels looking at a
- 8 number of other exemptions, there are some significant
- 9 drafting issues with the -- even if you conclude that
- 10 they have satisfied their burden with regard to the
- 11 use being, in fact, non-infringing and that they've
- 12 satisfied that burden with respect to proving that
- 13 they don't have alternatives to circumvention, I think
- 14 there are a number of drafting issues that would need
- 15 to be addressed. I'll just mention a couple.
- 16 One is, as drafted, these -- these proposed
- 17 exemptions make no reference to the visually impaired
- 18 or the hard of hearing or deaf. They would be equally
- 19 applicable to subtitling in a different language, for
- 20 example, which is clearly a market that the copyright
- 21 owner expects to exploit for subtitling their movie in
- 22 other languages. And so the fair use calculus could

- 1 be quite different there. I think the focus of this
- 2 really needs to be narrowed and sharpened if you find
- 3 that the criteria have been met.
- 4 I'd also urge you to take a close look at
- 5 whether circumvention in order to create -- if needed
- 6 to create captioning, for example, or video
- 7 description that doesn't exist should be treated the
- 8 same as circumvention to improve on captions that have
- 9 been added by the copyright owner. And I think Linda
- 10 will talk more about the issue of the captioning
- 11 quality.
- 12 I recognize that, at some point, quality can
- 13 become so poor that it -- you know, the captioning is
- 14 not really functional. But, on the other hand,
- 15 there's another part of the spectrum, which is
- 16 captioning that may contain typographical errors or
- 17 that is a second or two behind in a news program, and
- 18 I would question whether those situations ought to be
- 19 treated the same in any exemption that you may see fit
- 20 to recommend to the librarian of Congress.
- 21 So I'll conclude there. Thank you again for
- 22 considering the views of the joint creators and

- 1 copyright owners. I'd be glad to answer any
- 2 questions.
- 3 MR. CARSON: Thank you. Linda.
- 4 MS. KINNEY: Yes. Hello. I'm Linda Kinney,
- 5 and I'm here on behalf of the Motion Picture
- 6 Association of America. Thank you again for holding
- 7 these hearings and devoting this amount of time to
- 8 these issues. Obviously, as content owners, we're
- 9 very appreciative.
- 10 So I'm going to address a few issues that
- 11 were raised by the testimony earlier, talk a little
- 12 bit about the FCC order, but mostly about what the
- 13 industry is doing in the area, which I think is
- 14 important and impressive, and talk about some of the
- 15 issues that were raised, like the web-only content,
- 16 the quality issues, and also the customization of
- 17 captions.
- So first of all, the FCC order, our industry
- 19 is working very hard to comply with the requirements
- 20 of that order and, by September, we have to caption
- 21 all programming, all TV episodes and any films that
- 22 are shown on television. Now, I think we appreciate

- 1 and understand the importance of this community. I
- 2 think the disabled community has done an excellent job
- 3 underscoring that this is approximately 48 million
- 4 hard of hearing people, maybe 25 million blind people,
- 5 and that's a really important constituency for us. As
- 6 a practical matter, the studios -- their business
- 7 model is based on ratings; the more people who can be
- 8 reached, obviously the better and more successful we
- 9 are as companies too. So the incentives are aligned.
- 10 We've worked hard. We've done a lot of things on a
- 11 voluntary basis way before any requirements were
- 12 imposed.
- 13 So, for example, on the web issue, prior to
- 14 the FCC's rules, there were about 10,000 episodes just
- 15 on Hulu that had captioning on the web even though
- 16 there was no requirement to provide those captions.
- 17 So, again, just to show that our incentives are
- 18 aligned with the disabled community, I think we have
- 19 worked well with them, as they've also recognized. So
- 20 we're aligned in that regard.
- 21 With respect to some of the specific issues
- 22 that were raised, one of the concerns, which I think

- 1 is speculative, is that -- with regard to the web-only
- 2 content. So from a studio perspective, obviously our
- 3 interests are to get our content out to as many
- 4 devices and as many locations and as broad an audience
- 5 as possible. So for the most part, we not only
- 6 release content to the theaters, but there's usually a
- 7 television window, and it may be on cable or some
- 8 other -- or a broadcast channel, and then ultimately
- 9 it ends up on the web. And anything, under the FCC
- 10 rules, that appears on television, whether it's a
- 11 motion picture or a TV episode, that's captioned has
- 12 to then be captioned on the web. So all of that
- 13 content will be available on studio websites, Netflix,
- 14 Amazon, other websites that -- that web content will
- 15 be available.
- 16 There are -- as some of the disabled
- 17 community has pointed out, there are some distributors
- 18 who plan to do web-only content as a way to compete
- 19 with some of the cable programmers. Netflix, for
- 20 example -- I don't speak for Netflix. They're not
- 21 here. But I do know, from conversations with them,
- 22 that they do plan to provide captions for some of

- 1 their new programming that will be available on web
- 2 only.
- 3 So I would just -- rather than saying
- 4 web-only content is completely excluded from captions
- 5 and accessibility, I think that's not entirely
- 6 accurate, and it may be on a case-by-case basis.
- 7 With regard to the quality issue, there is a
- 8 very big difference -- we agree with the community
- 9 between captions that are provided by human beings
- 10 and -- captions that are provided by human beings and
- 11 captions that are provided by the existing technology.
- 12 So, for example, the speech-to-text
- 13 technology, which is very affordable, definitely has
- 14 some quality issues and, as a result, the content
- 15 providers do not use that as our primary means of
- 16 providing captions even though it is much, much, much
- 17 less expensive for us to use. We do use the four
- 18 major captioning houses out of Southern California
- 19 that provide very high captioning quality.
- 20 So I don't think there's really an issue for
- 21 the most part with studio content or content being
- 22 provided on television with captions. Those captions,

- 1 again, are superior quality.
- 2 Some of the user-generated content -- if you
- 3 go to YouTube and you look up some -- they do offer
- 4 captioning for user-generated content, but that's
- 5 usually with this technology that's really
- 6 speech-to-text, and you will notice a lot of errors,
- 7 and it does impact accessibility. But, again, that's
- 8 not currently what we use to caption. So I think, as
- 9 a quality issue, our content is of superior quality.
- 10 And then the last point I wanted to raise is
- 11 with regard to the customization of captions. Part of
- 12 the FCC's rules do require that customization be
- 13 provided, and there are several components to that.
- 14 There is a device component and there is also usually
- 15 a software component.
- 16 The devices have to be -- have to have this
- 17 customization aspect by -- January 2014 is the
- 18 deadline. And these are very comprehensive. So, for
- 19 example, 64 colors have to be available in addition to
- 20 different size fonts. So all of that needs to be
- 21 provided by both the players and the distributor, but
- 22 also the device.

- 1 We have, as our colleagues pointed out,
- 2 requested that our obligation sync up with that device
- 3 obligation for technical reasons, but all of that will
- 4 be happening, and we're working very hard to deploy
- 5 that.
- I think, in addition to that, again,
- 7 completely voluntarily, because we have an interest in
- 8 getting our content out to this community, if you look
- 9 at Hulu, for example, you can already manipulate some
- 10 of the captioning, so you would never see what we saw
- 11 this morning in terms of that quality of caption. You
- 12 have three options. You have white captions. You
- 13 have black captions in case there is a snowy scene.
- 14 And then there's a highlighted option that has a
- 15 yellow highlight along the bottom that has black
- 16 letters and a yellow highlight so that you will always
- 17 be able to see the overlay and you won't have the
- 18 problem that we witnessed this morning.
- So, again, those are voluntarily efforts by
- 20 the content industry to try to get this content out to
- 21 as many people as possible, to work with the disabled
- 22 community. And these things are being addressed and

- 1 we are committing a tremendous amount of resources and
- 2 work force to accomplishing the types of things we've
- 3 talked about this morning because we do agree with the
- 4 disability folks that this is a very important
- 5 community to provide access to content.
- 6 So with that, I'll be happy to answer any
- 7 questions.
- 8 MR. CARSON: Thank you very much.
- 9 Before we go to questions, I'll give the
- 10 various witnesses supporting the proposed classes an
- 11 opportunity to respond to anything said by any of the
- 12 opponents and -- with the usual caveat, this is an
- 13 opportunity to respond to what you just heard, not to
- 14 elaborate on other matters. So...
- MR. REID: So I'll go through a few -- just a
- 16 few responses here. First, Dean, we're thrilled to
- 17 hear that the license that you're offering is a free
- 18 license. I think the tenor of our comments -- was
- 19 worried that it wasn't a free license was based on the
- 20 language in the comment, which didn't suggest that
- 21 it's free, so we appreciate that.
- 22 With that said, I want to go back to

- 1 something that Gene Quinn said yesterday, which is
- 2 that what we're talking about here is a fair use. And
- 3 we're talking about research that we want to do. We
- 4 don't have to ask permission to do that, and we
- 5 shouldn't have to ask permission to do that.
- 6 And while it's great that we might be able to
- 7 get a license for the technology that you have, we may
- 8 not be able to get a license with respect to the
- 9 content itself. We're not certain that you're going
- 10 to be able to provide us a license that completely
- 11 shields us from 1201 liability, so we really
- 12 appreciate the offer, and I'm sure you'll get a call
- 13 or an e-mail from Christian at some point to talk to
- 14 you about this. But we don't think that's enough.
- On to the points that Mr. Metalitz made.
- 16 First, talking about whether the use that we're
- 17 talking about is non-infringing and whether the burden
- 18 of proof is whether it's likely to be non-infringing
- 19 or is, in fact, non-infringing -- well, first there's
- 20 a Supreme Court case, Universal v. Sony, where they
- 21 drop a footnote and suggest at least -- and admittedly
- 22 it's dicta -- that providing accessibility merely for

- 1 the convenience of a disabled person is like a per se
- 2 fair use. This is at the core of fair use.
- There's some language in the legislative
- 4 history, the 1976 Copyright Act, that we think is
- 5 instructive in this regard, and that's all in our
- 6 brief.
- 7 So it's not about, you know, whether or not
- 8 it's a derivative work or not. We're very confident
- 9 that this is fair use. And even if you don't want to
- 10 rely on what the Supreme Court said and what Congress
- 11 has said, if you go through the analysis, which we did
- 12 in our brief, this is not that complicated.
- The market factor, which is the keystone of
- 14 fair use, we have a decades long record of people
- 15 saying, this is too expensive, we don't want to
- 16 provide this. We can't do it. And we're seeing some
- 17 of that now, but I think this is per se fair use. And
- 18 I also wanted to tag the issue of preemption. We
- 19 think the message from Congress in this regard in
- 20 passing the '96 telecom act and in passing the CVAA is
- 21 to content owners, listen, you guys need to make every
- 22 bit of content that you have accessible unless you

- 1 can't afford it.
- 2 So we think that that rolls back the
- 3 copyright with respect to accessible products. You
- 4 can't say to the FCC, oh, we can't afford to do this
- 5 particular content, but then we're going to turn
- 6 around and assert copyright on that in another
- 7 context. We think those -- those sort of claims are
- 8 preempted.
- 9 We've detailed this in our brief, and I want
- 10 to note, because Mr. Metalitz has been giving people a
- 11 hard time for the last couple of days, there's nothing
- 12 about what's on the record already, there's nothing in
- 13 Mr. Metalitz's brief engaging in any of these points
- 14 about fair use or preemption, and we encourage you to
- 15 take that into account because we feel like we made
- 16 our case on that front.
- 17 With respect to the different kinds of TPMs,
- 18 I know this issue came up yesterday. As we detailed
- 19 in our brief, this is a shifting landscape, and you
- 20 can't ask us to build a foundation here on shifting
- 21 sand.
- The leading video providers, including folks

- 1 like Netflix, are changing their DRM schemes all the
- 2 time. There's no possibility that we can predict in
- 3 the next three years all the DRM schemes that are
- 4 going to be involved in online video. And it can't be
- 5 the case that an exemption is going to fail for that
- 6 reason, because the technology itself is changing so
- 7 fast. I think somebody brought up yesterday, this is
- 8 ultimately about the classes of works at issue and not
- 9 the changing TPMs.
- 10 With regard to the drafting issues, and not
- 11 specifically referring to people who are blind or
- 12 deaf, here is the problem that we see with that -- and
- 13 Mark alluded to this a little bit. The benefits of
- 14 closed captioning and video description are not just
- 15 for people that are -- have disabilities. How many
- 16 people in the room have looked at closed captions
- 17 while they're at the gym or at a bar. I know I have.
- 18 That blows the exemption right there because if
- 19 somebody circumvents for the purpose of adding closed
- 20 captions and it happens to benefit somebody who is not
- 21 blind or visually impaired, then we've got a problem.
- 22 And that's actually been the selling point

- 1 with a lot of this legislation in Congress is that
- 2 this is good for people outside of the disability
- 3 communities. So we want to make sure -- you know, we
- 4 appreciate the want to put some sort of limitation in
- 5 about that, but you need to be careful that that
- 6 doesn't totally vitiate the exemption altogether.
- 7 With respect to the issue about other
- 8 languages, clearly we're not talking about translating
- 9 something to French. If we need to put in some sort
- 10 of limitation that reflects that, we're only talking
- 11 about programming as it's made available in the United
- 12 States in whatever sort of languages that you make it,
- 13 with the possible caveat that there are sometimes
- 14 foreign language portions of the programs that you
- 15 provide subtitles for or that you are intending to
- 16 translate for an American audience. We want to make
- 17 sure that's included in the exemption.
- 18 Let's see. So the other issue -- and maybe
- 19 we can get into this more a little bit later -- is
- 20 creating accessibility features versus improving
- 21 accessibility features. When we're talking about
- 22 improving quality issues, this is not going to be a

- 1 rehash of what we talked about yesterday with all of
- 2 the fineries of pixels and making remixes and all that
- 3 kind of stuff. The difference with quality is between
- 4 accessibility and not. And the suggestion -- and, I'm
- 5 sorry, Mr. Metalitz, but you made this point in your
- 6 comments that it might just be a mere inconvenience if
- 7 there's a quality issue. It's the different between
- 8 content being accessible and not. And, you know, that
- 9 shouldn't make any difference in the exemption that
- 10 we're talking about.
- 11 Let's see. Just a couple of quick points on
- 12 the remarks that Ms. Kinney made. She said several
- 13 times that the CVAA applies to -- requires captioning
- 14 for Internet protocol-delivered content that's been on
- 15 television. I want to clarify that stuff that's been
- 16 on television with captions -- so the FCC has
- 17 exemptions -- they have about 15 different categorical
- 18 exemptions, including the sort of the grandchild of
- 19 the music video exemption that we talked about
- 20 earlier. There are several different ones. There are
- 21 hundreds of individualized exemptions that people file
- 22 for. So we're not talking about all content that's

- 1 been on television, and so I just wanted to clarify
- 2 that.
- 3 And when we're talking about a case-by-case
- 4 basis, I wanted to make kind of a broader point here.
- 5 We don't want to recaption or make accessible stuff
- 6 that's already accessible. Right? I don't think
- 7 we're asking for that. If there's stuff that's out
- 8 there that you guys are making accessible, that's
- 9 great. We don't want to revisit that issue. And as I
- 10 said at the beginning, we think -- we would love it if
- 11 you guys took sole responsibility for these issues.
- 12 So we're amenable to a limitation, and I
- 13 think Mr. Metalitz suggested this in his reply
- 14 comments, about works that are already accessible.
- 15 But we want to talk what we mean by accessible, and we
- 16 want to make sure that any such limitation
- 17 incorporates these quality issues because, like I said
- 18 before, these quality issues are the difference
- 19 between accessibility and non-accessibility.
- In terms of high-quality captions, you
- 21 mentioned that the studios are using high quality
- 22 captions -- I'll let Andrew and Christian speak. They

- 1 have a little bit more experience with that, but I
- 2 just want to say the rest of the industry doesn't
- 3 necessarily use high-quality captions. In particular,
- 4 the FCC, for a large portion of programming on
- 5 television, permits what's called the electronic
- 6 newsroom technique where they basically feed the
- 7 script of the show or the script from the teleprompter
- 8 into the captions. And so if anybody deviates from
- 9 the script or there's an unscripted moment and
- 10 something else happens, no longer captioned.
- So, you know, the level of quality is not
- 12 there. We've initiated a quality proceeding at the
- 13 FCC. We filed a rulemaking -- a petition for
- 14 rulemaking on that more than seven years ago. It's
- 15 been vigorously opposed by the industry and it's sat
- 16 dormant since then, so we're not seeing a lot of
- 17 action on that front.
- And, finally, the very last point on the
- 19 issue of customization and the issues surrounding
- 20 being able to change the font and the size and the
- 21 color and all that stuff, it's required in the FCC
- 22 rules, but not necessarily for DVDs and Blu-Ray

- 1 players. In fact, the Consumer Electronics
- 2 Association just filed a petition for reconsideration,
- 3 trying specifically to get DVDs and Blu-Ray players
- 4 out of the rules so that they won't have to include
- 5 all those customization options.
- 6 Also, the rules kick in on January 1st, 2014.
- 7 Again, the Consumer Electronics Association just filed
- 8 a petition asking to clarify that refers only to the
- 9 date of manufacture and, as you know, it can take a
- 10 very long for devices to be manufactured and then
- 11 imported. They sit on store shelves for a long time.
- So we think, realistically, we may be looking
- 13 at a date that's in July of 2014, maybe as late as
- 14 2015. And we're talking about a significant portion
- 15 of the three-year time frame for this rulemaking. So
- 16 maybe that's an issue we need to come back and address
- 17 in 2015 when we talk to you guys next. But we'll see.
- 18 And we don't think that's manifested in the
- 19 marketplace yet.
- 20 MR. PHILLIPS (via interpreter): Thank you
- 21 for the opportunity to respond. In regards to points
- 22 that were made by the opposing group, I've actually

- 1 been watching online for the past ten years, and I've
- 2 been -- I remember when ESPN actually started putting
- 3 a lot of their clips and a lot of their movies from
- 4 the day of sporting events to the Internet, and a lot
- 5 of members of the deaf and hard of hearing community
- 6 have contacted them, because the online video
- 7 programming distributors -- we've been asking for
- 8 captioning, and oftentimes we'll get the response that
- 9 they're working on it or it will happen, it's coming
- 10 soon. But still to this date it has yet to happen.
- 11 So a lot of those promises -- we appreciate
- 12 the intentions behind them, but so far, in our
- 13 experiences, they've come up empty. And, you know,
- 14 instead, what we've seen -- you know, they have these
- 15 legal requirements to make certain programs
- 16 accessible, and when there is no legal requirement,
- 17 then rarely is access provided, and that's the reason
- 18 why we're here, that this presents opportunities so
- 19 that we can make those programs that are not covered,
- 20 making them accessible.
- 21 A lot of deaf and hard of hearing people need
- 22 the ability to be able to customize captions. And

- 1 while I personally watch a lot of online videos, I
- 2 would say that most websites do not allow me to make
- 3 customization changes, making something easier to
- 4 read.
- 5 For example, Hulu.com, you may be able to
- 6 change the color, but I don't think that you can
- 7 change the size of the font or the caption.
- B DR. VOGLER (via interpreter): If I may,
- 9 thank you again for your comments, and there are a
- 10 couple of points I wanted to respond to. First of
- 11 all, regarding the license, the free license, in
- 12 response, I do appreciate the offer that you've made
- 13 to provide that. It does raise a few concerns in
- 14 terms of the situation that I have displayed with the
- 15 video that I've used today.
- 16 This video is called Xine, X-I-N-E. And it's
- 17 a developmental open source project that we're working
- 18 on. It has excellent accessibility features. And
- 19 it's great base for working. It's got good GPL. So
- 20 we are aware of the limitations, but that doesn't
- 21 necessarily mean we can always get a license because
- 22 distributors don't always work with us. They say that

- 1 it's a violation of GPL. So that's one concern.
- 2 The second concern with the license is that
- 3 many of the issues take many years to actually get
- 4 addressed, regardless of the license. So it may two
- 5 years, due to the expense involved. So two or three
- 6 years of people working on code in order to make it
- 7 accessible really allows an exorbitant amount of time
- 8 to pass. So this is a concern of our situation, and
- 9 people are also concerned about the risk of violation
- 10 of copyright laws. And so, as a result, they're not
- 11 willing to engage in assisting us in development.
- I did also want to point out that a number of
- 13 the comments that were made were given from the
- 14 perspective of the content creators. That's not
- 15 necessarily our biggest problem. Our biggest problem
- 16 actually comes from, how is it we can play back
- 17 content to make sure that the playback is accessible?
- And just to give you an example, if a person
- 19 buys a legal document of a DVD player or has a license
- 20 or whatever they might get, and I provide a program to
- 21 enhance accessibility and have it available, like what
- 22 you saw today, a person is not able to use a

- 1 particular program that they purchased because the
- 2 playback on the video doesn't have the improved
- 3 accessibility features. We have may have the ability
- 4 to make it technologically happen, but because of the
- 5 barriers in place technologically, they cannot access
- 6 those features. So this is the situation we see
- 7 ourselves in.
- If you don't change content, if you don't add
- 9 new captions, if you simply make the content more
- 10 accessible, the person who is the end user cannot take
- 11 advantage of the enhanced accessibility features.
- So, for example, if you have a DVD -- most of
- 13 the DVDs currently today have subtitles for the deaf
- 14 and hard of hearing. And those will show up on a DVD,
- 15 but you have no control over the size of the font and
- 16 you also cannot convert them to Braille. So those are
- 17 not possible features.
- The technology is very easy to add to allow
- 19 those subtitles to make those features customized, and
- 20 it won't change any content or anything else.
- 21 However, the owner of the video with the playback
- 22 rights will not allow this to happen because they say

- 1 it's a violation of the DMCA. So that's the situation
- 2 we're currently faced with.
- 3 MR. RICHERT: This is Mark Richert. Just a
- 4 brief word on some of the comments from our colleagues
- 5 as they apply to video description.
- 6 Just to give you a sense of the scope of
- 7 material that we're talking about, or not talking
- 8 about, for many, many years we've been struggling to
- 9 try to see more broadcast television, cable television
- 10 programming made accessible through video description.
- 11 It's been pointed out the rules that were in place
- 12 over 12 years ago now -- were initially struck down.
- 13 We've got them reinstated as a result of the CVAA.
- 14 The compromises that were struck essentially mean that
- 15 there will be no more than 36 hours of described
- 16 programming per week.
- 17 We were actually told at a presentation not
- 18 unlike this by our colleagues, some of whom are not
- 19 here, but from the broadcasting industry, well, that
- 20 should be plenty of programming for you. And some of
- 21 us actually sort of responded, not necessarily too
- 22 much in jest, well, maybe we ought to restrict the

- 1 sale of, you know, commercials to 36 hours' worth of
- 2 commercial -- if that's enough for folks.
- 3 When you look at the realm of online
- 4 programming, the CVAA does not allow for any
- 5 expectation on, quote/unquote, industry. We use that
- 6 term "industry" so broadly because there are plenty of
- 7 folks, including our colleagues here, who have done a
- 8 lot in this area. But, quote/unquote, on the industry
- 9 the obligation is zero to provide access via video
- 10 description.
- 11 With respect to quality issues, our
- 12 colleagues in the deaf and hard of hearing world -- it
- 13 seems, as always, we can learn a lot from their
- 14 ability to advocate because they at least have a
- 15 proceeding, even though it's been lingering for seven
- 16 years, on quality. We don't even have that. In fact,
- 17 we're prohibited from addressing the issue of quality
- 18 video description with respect to the modest rules
- 19 that we've even been able to reinstate.
- 20 And as I indicated in my opening remarks, and
- 21 will capitulate here again, none of what we've talked
- 22 about is really addressing the whole issue of

- 1 educational materials, of which there is a tremendous
- 2 lack.
- 3 So what we're really talking about is the
- 4 ability of the disabilities community to be able to do
- 5 the work that clearly others are unwilling or
- 6 seemingly unable to do.
- 7 And we know that by getting around
- 8 technological limitations, technological measures to
- 9 try to protect copyright, that is an area that will
- 10 allow further development and to fill these gaps that
- 11 others aren't willing to fill.
- 12 MR. CARSON: Before we go to questions,
- 13 anything that was just said any of you feel any need
- 14 to respond to? Dean.
- MR. MARKS: Yes, thank you very much. And I
- 16 appreciate the remarks, and I just wanted to respond
- 17 in the following, which is the subject of the hearing
- 18 as the technological protection measures and whether
- 19 they're serving as an obstacle to accomplish fair
- 20 uses.
- 21 And so what I was saying in my opening
- 22 remarks, and I really do want to reiterate that is

- 1 that to the extent that AACS is standing in the way of
- 2 research to create these descriptive programs or
- 3 captioning, or the steps as to how you could sync them
- 4 up more readily with the program, and that's why the
- 5 community is seeking an exemption -- what I was trying
- 6 to state is I don't think that's necessary because
- 7 we're happy to give you a license so that you don't
- 8 have to circumvent, so that you can have the
- 9 content -- you know, the license that will allow you
- 10 to decrypt and work with the content so you can do the
- 11 syncing.
- 12 Frankly, you know, whether the software
- 13 itself that may do the descriptions or open -- or
- 14 closed captioning is open source or not open source,
- 15 that's not necessarily of relevance to us. We can't
- 16 speak for content owners who may have issues with
- 17 putting descriptors on without authorization. But for
- 18 AACS as a licensor of a DRM technology, we have
- 19 discussed this and we have no problem with the notion
- 20 of issuing a license to allow this research work to be
- 21 done. And we -- and we would not, you know, be
- 22 standing in the way.

- 1 And so I wanted to particularly respond to
- 2 Blake's question about whether our giving a license
- 3 could shield them from 1201 liability. I mean, I
- 4 think the answer is yes because the -- if you're a
- 5 licensee, you're operating, you know, under
- 6 authorization and so, therefore, there really wouldn't
- 7 be 1201 liability. So I just wanted to make those
- 8 clarifying remarks.
- 9 MR. CARSON: Let's explore that, Dean,
- 10 because I don't have the text of 1201 in front of me,
- 11 but I'm not sure that what you described is accurate.
- 12 I'd be delighted to be proved wrong.
- 13 But my recollection of the language of
- 14 1201(a) is that it is a violation of section
- 15 1201(a)(1) to circumvent a technological measure that
- 16 controls access to a copyrighted work without the
- 17 authorization of the copyright owner. So does AACS
- 18 actually have the authority to give a license that
- 19 would absolve one of liability for a violation of
- 20 1201(a)(1) when I'm pretty sure the language in
- 21 1201(a)(1) is, in fact, "without the authorization of
- 22 the copyright owner"?

102 Yes, in the definition, it would circumvent a 1 technological measure, it means to descramble a scrambled work, decrypt an encrypted work or otherwise to avoid, bypass, remove, deactivate or impair a 5 technological measure without the authority of the 6 copyright owner. So -- Steve is also waving his hand. Either 8 of you, please answer. 9 MR. METALITZ: I have to say one of the problems here that I'm having is that I don't 10 understand the basis for the claim that there's a DMCA 11 12 violation here because --13 MR. CARSON: We'll get to that. MR. METALITZ: -- I don't understand --14 15 MR. CARSON: We'll get to that. 16 MR. METALITZ: -- what the activity is. 17 I think, getting to this point, as I understand, 18 what -- one of the things that the proponents want to 19 do is research to figure out ways so that they can 20 generate their own captioning and video description 21 and link that up with these works. And I think what 22 Dean is offering is that they can, if they need to --

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1 if they need to, you know, kind of -
2 MR. MARKS: Remove the DRM.

3 MR. METALITZ: -- remove the DRM -- obviously

4 maybe you would have a copyright -- you might need a

- 5 copyright owner's agreement in a particular case as
- 6 well, but I think he's saying that to the extent that
- 7 use of their technology would be required in order to
- 8 do this, they're perfectly willing to grant that on a
- 9 free basis so that the researchers could figure out a
- 10 way to do this without circumvention.
- 11 It's kind of a reverse engineering problem,
- 12 it seems to me, more than -- than an infringement
- 13 problem. But, again, I admit, I'm still mystified,
- 14 after all the pages of submission and all the
- 15 testimony here -- I think Dr. Vogler, for the first
- 16 time I heard him say that someone told them it would
- 17 be a DMCA violation, and I'd love to know who told
- 18 them that and what were the circumstances.
- 19 And -- it's simply unclear to me what the
- 20 proponents want to do that -- and why circumvention --
- 21 why the TPM is standing in the way. I don't know
- 22 whether they want to put the captioning and the video

- 1 description on copies and make new copies and
- 2 distribute them to the public, or whether they want to
- 3 distribute new players to the public that will enable
- 4 people to see captioning and hear video description
- 5 that's not otherwise there.
- 6 I just think it would help, in answering
- 7 these questions, if we had a more concrete idea of
- 8 what it is they want to do and exactly where the
- 9 section 1201(a)(1) constitutes a barrier.
- 10 MR. MARKS: Let me -- I agree with that. I
- 11 want to try and answer your question directly. I
- 12 think, technically, you're correct under the law
- 13 because we are not the copyright owner; AACS LA is not
- 14 the copyright owners of the underlying works.
- 15 However, as the owners of the technological
- 16 protection measure itself, in our licensing it out to
- 17 someone to do the research where someone has entered
- 18 the license and signed the license, just like a device
- 19 manufacturer, as long as they're following the
- 20 license, I think there's going to be a pretty hard
- 21 road to climb to say that, in following a license
- 22 agreement, you have circumvented.

105 For example, content owners, if they want to 1 use the technology to protect their works, have to come to us to get a license. So the technology is AACS' to license. MR. CARSON: Is there anything in your 5 licenses with the content providers that could be 6 construed as giving you the authority to act on behalf 7 8 of the copyright owners so that, when you give permission to circumvent, that permission is being 10 done -- what's the language, Rob? Is it under or with the authority of the copyright owner? 11 12 Will you give me a minute? MR. MARKS: 13 MR. CARSON: If the answer is yes, yes. MR. MARKS: Got it. Thank you, Bruce. 14 15 me a couple of times. 16 I think the answer is they're not 17 circumventing because they're using it under a 18 license, so they're not avoiding, bypassing, 19 hacking -- they're not doing that because it's a 20 license -- it's a use that's licensed. 21 MR. CARSON: So I gather they would be doing 22 exactly the same thing that they would be doing

- 1 without a license, but by virtue of the fact that
- 2 there is a license, it suddenly is no longer
- 3 descrambling, decrypting or avoiding, bypassing or
- 4 deactivating or impairing the technological --
- 5 MR. MARKS: Correct. That's the position we
- 6 would take.
- 7 MR. CARSON: I would love to get there. I'm
- 8 not sure I'm convinced, but okay.
- 9 Anyone on that side of the table want to
- 10 speak to this whole issue before we move on?
- 11 MR. REID: Yeah. So, first, I think what
- 12 Dr. Vogler was trying to get at is a lot of the
- 13 software, the video playback software that folks like
- 14 him are able to work on, uses an open source license
- 15 which tends to be incompatible with -- for example, I
- 16 think under your standard license, we wouldn't be able
- 17 to incorporate your technology because then we would
- 18 have to release the source code for your technology
- 19 out into the world, and I imagine your license isn't
- 20 compatible with that. And the leading accessibility
- 21 software and the leading video playback software
- 22 that's available to educational researchers, to the

107 best of my knowledge, is under the general public license or some variant of that. With respect to the non-infringing activities -- do you want us to get into that now? MR. CARSON: I'm going to want you to get into that. MR. MARKS: Can I respond to that --MR. CARSON: I like to make sure we're done 9 with this. 10 MR. MARKS: -- just for a second? You know, David, when you have a player, a BD 11 player, it's descrambling the AACS technology as well. 12 So are you saying that all player 13 manufacturers are at risk of -- you know, even if 15 they're following the letter of the license, to being sued for 1201 violations? 16 17 MR. CARSON: And I suppose the answer has to be found in the license; otherwise, how do you get 19 there? Is that where you're going? 20 MR. MARKS: Right. 21 MR. CARSON: I follow that. 22 MR. REID: I mean, I think the other thing to

- 1 mention here is, one, we don't have this license in
- 2 front of us to look at, and so we're speculating here.
- The other thing is, we're talking about a
- 4 variety of different DRMs; we're not just talking
- 5 about the Blu-Ray --
- 6 MR. MARKS: I understand, right.
- 7 MR. REID: -- DRM and the DVD DRM. We're
- 8 talking about the wide variety of DRMs that exist
- 9 online --
- 10 MR. MARKS: Right.
- 11 MR. REID: -- and we don't have anybody in
- 12 the room that can talk about those.
- MR. MARKS: I understand and appreciate that.
- 14 And what -- and I want to make sure that -- that my
- 15 remarks are appropriately cabined in terms of saying
- 16 the license that we would offer, which would allow the
- 17 researchers to be able to -- to the extent that the
- 18 DRM is preventing the access to the content to be able
- 19 to research as to how closed captioning or video
- 20 description software could interact with the
- 21 underlying content that's protected by the TPM, that's
- 22 what the license would be about.

- 1 To the extent that you're talking about
- 2 incorporating somehow the TPM to interact with the
- 3 your particular piece of software that would require
- 4 the keys to be disclosed because it's open source
- 5 software, I mean, that -- that would obviously be
- 6 problematic. And so -- but what we understood the
- 7 comments to be is, gee, we want to be able to access
- 8 the underlying content to be able to see if our
- 9 programs can interact properly with the content, sync
- 10 up with the content, and we can't do that because the
- 11 DRM is standing as a barrier.
- And what we're saying is, we will license you
- 13 so the DRM does not stand as that barrier.
- MR. CARSON: Let's explore the extent to
- 15 which the DRM is a barrier. What do we know about, A,
- 16 whether, and B, the extent to which the problem you
- 17 have is caused by technological measures that control
- 18 access to works?
- 19 MR. REID: Sure. So I'd like to start with
- 20 the Netflix example. And I wish someone from Netflix
- 21 was here on the panel today, but they told a federal
- 22 court in Massachusetts, hey, we would love to make all

- 1 of our content captioned, because the fine person at
- 2 the National Association of the Deaf are going after
- 3 them to make their content accessible, but we can't do
- 4 it because, to do so, we would have to circumvent an
- 5 access control and risk violating the DMCA.
- 6 So, you know, I can't speak for them, but
- 7 that's -- we're talking about a huge fraction of
- 8 online video, and they are the mainstream provider,
- 9 and they are saying, we can't make our stuff
- 10 accessible right now, even though we would like to,
- 11 without cracking a TPM. And that's on the public
- 12 record now.
- 13 With respect to the activities that we were
- 14 talking about, I think, with due respect to
- 15 Mr. Metalitz, we've laid this out in our brief in
- 16 pretty careful detail the kinds of activities that
- 17 we're talking about. One, we're talking about
- 18 overlaying a visible transcription of the audible
- 19 portion of an audio-visual work on the visual portion
- 20 of the work, or vice versa. And to be able to do
- 21 that -- and so we can use -- we talked about the
- 22 website Universal Subtitles as an example.

- 1 And, by the way, if you look up the first
- 2 tech hearing, there's a video of it on YouTube, and
- 3 we've started transcribing that on Universal
- 4 Subtitles. We've only made it through your remarks,
- 5 but -- you can see how this works without DRM.
- 6 What YouTube is does they expose, via an
- 7 application programming interface, an API, the
- 8 play head of the player to the accessibility software
- 9 and it says, okay, right at this moment I'm at one
- 10 minute, I'm at one minute and one second, I'm at one
- 11 minute and two seconds, so on. The user pauses and
- 12 says, we'll pause. And the accessibility software can
- 13 say, okay, I've got this subtitle file, or I've got
- 14 this caption file with these time codes stamped in it.
- 15 Oh, we're at one minute; I need to queue up the
- 16 caption that's appropriate to be on the screen at one
- 17 minute.
- 18 So that works when there's an API that
- 19 exposes the play head to the developer.
- 20 Unfortunately, that only exists in open players that
- 21 don't have DRM: YouTube, video -- there's some HTML5
- 22 players. It doesn't work with Netflix. It doesn't

- 1 work with Hulu. We've talked to the folks that are
- 2 behind Universal Subtitles, and they say they can't do
- 3 that on the mainstream streaming sites. So that's one
- 4 example.
- 5 The other part -- the other examples that
- 6 we've proposed are extracting the captioning and video
- 7 description data from an audio-visual work for the
- 8 purposes of making corrections to the content. And in
- 9 particular this is talking about errors in captions.
- 10 And if you go to the website captionfail.com,
- 11 you will see an endless parade of problems with
- 12 captions that would be funny if you could hear the
- 13 audio that was going on. But if you're actually
- 14 watching that and trying to figure out what was
- 15 actually said, it wouldn't be so funny.
- 16 And wouldn't it be great if we could come
- 17 with a database of -- and I'm just hypothesizing
- 18 here -- if we could come up with a database by which
- 19 people that are watching online videos or DVDs could
- 20 say, hey, at minute one minute of the movie War Horse
- 21 there's a problem with the captions. They misspelled
- 22 the name of the horse. Here's the correct name of the

- 1 horse. And we could design a player that goes out to
- 2 the database and says, ah, when you're watching the
- 3 DVD War Horse, grab the corrected captions and insert
- 4 them in at that moment. That's an example of what
- 5 we're talking about.
- 6 Again, we can't do either the extraction or
- 7 the overlay without cracking the DRM. And we can come
- 8 up with similar examples for video description.
- 9 MR. CARSON: Can I just ask, is that true
- 10 with respect to DVDs and Blu-Ray?
- MR. REID: So far as I know -- and maybe
- 12 Dr. Vogler can chime in on this -- but I believe it's
- 13 impossible to access the caption files without
- 14 actually being able to circumvent the DRM or using the
- 15 technology that AACS LA and DVD CCA would offer.
- DR. VOGLER (via interpreter): That's
- 17 correct.
- 18 MR. CARSON: That was Dr. Vogler saying it's
- 19 correct.
- DR. VOGLER (via interpreter): Yes.
- 21 MR. REID: And so the third activity that we
- 22 outlined is talking about improving of the quality of

- 1 the rendering. And this is all the stuff that we
- 2 talked about earlier in terms of adjusting the font
- 3 size, adjusting the color. And, actually, if you'll
- 4 indulge me a moment, the video programming
- 5 accessibility advisory committee that Congress formed
- 6 when it created the CVAA identified several different
- 7 components with respect to captioning. And sorry,
- 8 Mark, they I think I left you guys out on this front
- 9 again -- but they said, one, the presentation of the
- 10 format, semantically significant formatting such as
- 11 italics, colors and underlining, the timing of the
- 12 presentation -- and then they identified seven
- 13 specific things.
- So one is support for a 64-color palette and
- 15 allowing users to override default font color with one
- 16 of eight standard colors, the ability to vary
- 17 character opacity, support for various font types as
- 18 well as the ability for users to select default fonts
- 19 supporting the full 64-color palette. It's the
- 20 standard called CEA-708. And the full 64-color
- 21 palette for backgrounds, allowing users to adjust the
- 22 opacity of the background. So, normally, you might

- 1 see a black background behind the captions. We're
- 2 kind of used to the white on black. You might want to
- 3 change that color and the opacity of that so you can
- 4 actually see what's behind the captions. A lot of
- 5 times there will be text on the screen that the
- 6 captions cover up. You might want to be able to move
- 7 them around. Character edge attributes they talk
- 8 about.
- 9 Let's see. I think that's -- those are kind
- 10 of the big ones. The CEA-708 standard is quite
- 11 detailed. But the VPAC -- the advisory committee that
- 12 Congress created actually identified these as all
- 13 important issues. And we need to be able to extract
- 14 the captions or access the caption file in a way,
- 15 particularly if the Consumer Electronics Association
- 16 isn't going to include this capability on DVD players,
- 17 to be able to take the captions, take the text, and
- 18 actually be able to manipulate it in the ways that we
- 19 described earlier.
- I think the other important issue we haven't
- 21 quite gotten at today -- and this is, again, specific
- 22 to captions -- but it's the difference between

- 1 captions and subtitles and subtitles for the deaf and
- 2 hard of hearing. I think we've heard all of those
- 3 terms at some point today. So the important
- 4 difference here is that captions themselves, closed
- 5 captions, come in text format. So you can actually
- 6 manipulate the display of the text. It's like you're
- 7 in Microsoft Word. You make the text bold, you make
- 8 it bigger, you can do different sorts of styles, you
- 9 can do all this different stuff.
- 10 When we have subtitles or subtitles for the
- 11 deaf and hard of hearing, as the content industry is
- 12 starting to call them now, they're actually images
- 13 that are overlaid over the top of the video, so
- 14 they're like -- if you printed out a piece of paper
- 15 from Microsoft Word, you couldn't really -- you
- 16 couldn't change the font at that point. So it's,
- 17 like, take that piece of paper and plaster it over the
- 18 video.
- 19 So a lot of the captions that -- or a lot of
- 20 the subtitles that we're seeing now are in that format
- 21 and, in that case, we may have to extract the file,
- 22 run it through optical character recognition, have a

- 1 user or some sort of crowdsource solution that
- 2 actually sits there and transcribes those subtitles so
- 3 that they can be turned into an accessible format and
- 4 displayed in an accessible way and so on.
- 5 And, again, we've detailed these pretty
- 6 thoroughly, I think, in our opening proposal. But I'm
- 7 happy to answer any specific questions about those
- 8 activities.
- 9 MR. REED: Can I just ask you a question
- 10 about the play head comment? Are you saying you need
- 11 frame-accurate time code or is the -- even content
- 12 that's protected, I think, gives you minute and second
- 13 information. Why is that not sufficient to achieve
- 14 your desired purpose?
- DR. VOGLER (via interpreter): Okay. Well,
- 16 let me give you an example. And just, first, to
- 17 clarify, you're saying that the protection and -- with
- 18 the protection, you don't get the minute and second
- 19 information? Is that what the question was?
- 20 MR. REID: So I think what you're -- correct
- 21 me if I'm wrong. You're talking about when you pop in
- 22 a DVD or you're watching something online or whatever.

118 You see a little minute and second counter down in the corner. MR. REED: Well, you see a version of the time code. It's not the frame-specific time code that the player uses to render the images, but it's time --5 6 MR. REID: But you're talking about the thing that shows up --7 8 MR. REED: Well, more specifically, with 9 respect to IP video, when you're playing something on Hulu or Netflix, which I understand from your comments 10 are protected and you can't get access to the 11 12 play head, you still get time information. You 13 generally know where you are in that -- that's how it -- I mean, you can go from device to device and 15 pick up where you left off. 16 MR. REID: So I think it's important to 17 distinguish the "you" in this situation. As the 18 viewer, when I'm sitting there on Netflix and I see 19 the time code down in the bottom, I know what time it 20 is. 21 When we're talking about accessibility

software that's overlaid on the top, the accessibility

- 1 software can't see the screen and interpret, okay,
- 2 we're at one minute and one second. It needs to be
- 3 able to penetrate the DRM to get to that information.
- Whether that's possible with just the minutes
- 5 or the seconds or -- I mean, obviously something
- 6 frame-specific might be better, depending on the
- 7 particular caption format that we're talking about.
- 8 But the point is the accessibility software
- 9 can't get at what the eye can get it, that you could
- 10 look at, unless we want to start talking about screen
- 11 capture software, which I think no one is interested
- 12 in after yesterday.
- MR. REED: But your position is you need to
- 14 circumvent in order to access that?
- MR. REID: Yes, sir.
- 16 DR. VOGLER (via interpreter): If I could
- 17 respond to that, I just wanted to as well that
- 18 sometimes a screen capture is not possible. And I say
- 19 that because the DRM also will say that that area of
- 20 the screen is not accessible and will not allow you to
- 21 screen capture as a result of that.
- 22 So even if it's possible technically to

- 1 capture the screen information and get that time code,
- 2 sometimes specific programs are not allowed to do so.
- MR. REID: And we're talking about a variety
- 4 of different user interfaces that are going to render
- 5 the time code in a variety of different fonts. So, I
- 6 mean, conceivably, we could think of some sort of
- 7 specialized screen capture software that can focus on
- 8 that particular little corner of the screen in every
- 9 variation of player out there and, like, on the fly,
- 10 do optical character recognition to figure it out. We
- 11 don't think that's super realistic.
- 12 You know, the far, far easier way and
- 13 possible way is to crack the DRM and actually get
- 14 access to the play head. And that's how all the
- 15 people that are making this software is doing it, if
- 16 you look at the Universal Subtitles folks. When
- 17 they're actually able to succeed with this technology
- 18 is when they have access to the play head.
- 19 MR. RICHERT: With respect to video
- 20 description, there's really three ways that you can
- 21 get description. Of course, you can have your buddy
- 22 or someone live describing it to you, obviously.

- 1 Second, you can have a source that's external to the
- 2 content you're trying to have described that's
- 3 hopefully sequenced or synchronized appropriately so
- 4 that you can weave the narrations into appropriate
- 5 pauses. Obviously, we can all imagine the technical
- 6 troubles with making that happen, though some people
- 7 have been trying to play with solutions like that when
- 8 you can't get access to the content.
- 9 And the third area is, of course, to weave
- 10 the soundtrack, if you will, of the descriptions right
- 11 into the product that needs to be described. And in
- 12 order to do that, it's quite clear that you need to be
- 13 able to puncture, to circumvent, get behind the scenes
- 14 and fiddle around with, certainly, the audio tracks.
- And it's not just a question of, okay, we'll
- 16 run the video image through, but we'll put our own
- 17 audio track on. It literally, especially in this day
- 18 and age of surround sound and everything else -- and I
- 19 am really now getting into areas that are well beyond
- 20 what I know anything about, but I can tell you that
- 21 the engineers, if they were here, they would tell you,
- 22 you know, it's a really trick to make sure that the

- 1 description appears on the center track, or what have
- 2 you, to make sure -- the center channel, to make sure
- 3 that description is rendered appropriately for the
- 4 user. And that requires an awful lot of
- 5 sophistication to make sure that description is heard
- 6 properly, particularly if you're talking about
- 7 broadcasting it.
- 8 Again, I just want to make sure that we're
- 9 understanding this is not just about entertainment.
- 10 That is specially with respect to educational
- 11 opportunities. We're not going to have -- it's not
- 12 only inefficient; it's likely to be completely, you
- 13 know, lacking in quality if we tried to do the first
- 14 or the second of those approaches to description, to
- 15 have a third party live describe it for you or to
- 16 somehow synchronize a separate track at the time --
- 17 we're really talking about getting behind the scenes
- 18 for the content, building it directly in, and in order
- 19 to do that effectively and appropriately, we really
- 20 need access to the code.
- 21 MR. REID: And let me be clear. If the
- 22 industry were committed to providing accessibility

- 1 interfaces, or APIs for this stuff, we could certainly
- 2 envision a system where Netflix gives out the
- 3 play head information, it gives out the captioning
- 4 data, it permits you to overlay things in a particular
- 5 way, it permits you to mess with the mix of the video
- 6 description, all of that kind of stuff -- you know, we
- 7 could certainly conceive of ways that the system could
- 8 be implemented in a way that doesn't interfere with
- 9 the DRM.
- 10 You know, I want to make sure we're on the
- 11 record as saying we understand the reasons that you
- 12 guys use DRM. We understand that there are serious
- 13 problems with piracy and, you know, we're not here to
- 14 tell you don't use DRM. You know, we understand why
- 15 you do that. And there are ways we could conceive of
- 16 designing a system that wouldn't require cracking the
- 17 DRM, but that's not the reality today.
- 18 MR. CARSON: I'm trying to figure out exactly
- 19 what the end product of the kinds of things you're
- 20 doing is going to be, and what I'm getting at is --
- 21 let's start with physical media, DVDs, Blu-Ray and so
- 22 on. At the end of the process, what are you going to

- 1 be giving the community you serve? Are you going to
- 2 be giving them the original DVD with some software?
- 3 Or are you going to be giving them a new copy of the
- 4 work? Or how is this going to happen?
- 5 MR. REID: So, I mean, ideally, I don't think
- 6 we would want to be doing anything like distributing
- 7 copies of the works, and I know, Mr. Metalitz, you
- 8 expressed some concerns about that in your filing.
- 9 We're not going to be creating the new accessible
- 10 version of War Horse and dropping it in the mail to
- 11 people.
- I think we are talking about a couple of
- 13 things. One, we're talking about players, and
- 14 obviously there's this trafficking issue floating out
- 15 there. The way that these players are traditionally
- 16 distributed is they've got all the accessibility
- 17 stuff. They've got all the video playback stuff.
- 18 They don't have the circumvention component. They
- 19 kind of -- it's like the chip in the car without the
- 20 spark plugs.
- 21 Then the user can legally download that code,
- 22 and if they choose to violate the -- well, I don't

- 1 know if downloading violates the trafficking
- 2 provisions. We can talk about that in another
- 3 context. But they might download the circumventing
- 4 component in another way. Or they might talk to
- 5 somebody like Mr. Marks and get the spark plug that
- 6 they need to actually do the circumvention.
- 7 But we're talking about designing players
- 8 and, by the way, you know, folks like Dr. Vogler need
- 9 to actually design the players. In the course of
- 10 designing the players, they're going to need to be
- 11 doing circumvention to see how they work with actual
- 12 products.
- So I think we're talking about distributing
- 14 players. We might be talking about distributing
- 15 ancillary bits of content in terms of the corrected
- 16 captions, in terms of the corrected video description.
- 17 You know, we're obviously not going to
- 18 reproduce the entire -- you know, the entire corpus of
- 19 the movie where possible, but we might, as I mentioned
- 20 before, have the database where, at minute number one
- 21 on War Horse there's, you know, the following spelling
- 22 error, and that might be distributed in some publicly

126 available way. 2 MR. CARSON: So the end user would be receiving, in this context, the actual DVD or Blu-Ray disc --MR. REID: Yes. Yes. Yes. MR. CARSON: -- and you might have additional 6 software and data that is interacting with it in the 8 course of --9 MR. REID: That's correct. 10 MR. CARSON: -- the performance. 11 MR. REID: That's correct. I think it's important to emphasize that we drafted the exemption 12 13 specifically with that for users that already have lawful access to the work. We're not envisioning the 14 15 situation that we talked about in the past hearing 16 might be somebody creating an accessible version and 17 distributing it to lots of people. We don't have 18 anything like that in mind. 19 We have in mind users that have lawfully 20 purchased the DVD, have lawfully purchased access to 21 Netflix, lawfully can view Hulu for free, or paid for 22 Hulu Plus or whatever, and being able to take some

- 1 piece of software or some piece of code and overlay
- 2 that over the top. And, obviously, without violating
- 3 the trafficking provisions.
- 4 MR. CARSON: And similarly with respect to --
- 5 hold on. We'll get to them. I just want to get
- 6 clarification.
- 7 With respect to content that is, say streamed
- 8 on the Internet, is the model that you would be using
- 9 one where the viewer would still be streaming that
- 10 original content over the Internet, but it would be
- 11 interacting with something on their own equipment
- 12 which would do what it needs to do to provide the
- 13 captioning or the description and so on?
- 14 MR. REID: Yeah, I think that's the idea.
- 15 And you might take a look at Universal Subtitles as
- 16 sort of an example for how this works. You actually
- 17 go to the Universal Subtitles website, and what they
- 18 do is they have this overlay over a YouTube video.
- 19 They embed the YouTube video in the Universal
- 20 Subtitles website. It's still streaming from YouTube;
- 21 it's still got YouTube's controls; it's still got all
- 22 the YouTube stuff. But over the top of the YouTube

- 1 controls, it's overlaying accessibility features.
- 2 MR. CARSON: Now, anyone want to elaborate?
- 3 MR. PHILLIPS (via interpreter): Yes. I know
- 4 that Blake gave a great description about what we're
- 5 wanting to see in the future, and I think that that
- 6 goes back to some of the discussion that we had about
- 7 circumventing the DRM for research purposes.
- 8 A lot of deaf and hard of hearing people buy
- 9 DVDs themselves or have the right to access an online
- 10 streaming video. They should be able to circumvent
- 11 the DRM to be able to add the caption file or to be
- 12 able to improve the caption file or even customize it.
- 13 So, you know, it is possible.
- 14 MR. RICHERT: The only thing I would add with
- 15 respect to description is I -- I can see a need for
- 16 putting in the hands of a school district, some
- 17 educational institution, a work in its entirety for
- 18 educational purposes that's described. You know,
- 19 perhaps something we ought to be considering is, much
- 20 like with the case of captioning, there is open versus
- 21 closed captioning and you can select to have the stuff
- 22 displayed or not. Certainly that's been true with

- 1 some DVDs that have been distributed in the past
- 2 where, you know, you clearly can select whether you
- 3 want description heard or not.
- 4 You know, if it makes people feel better that
- 5 the described content is essentially open description,
- 6 if I can put it that way -- I don't know that anyone
- 7 in our community would be concerned about it. But
- 8 I -- I certainly think that, you know, educational
- 9 institutions that are trying to serve kids with
- 10 disabilities, students of all ages with disabilities,
- 11 may very well need to have a work in its entirety
- 12 distributed to them.
- MR. REID: Really quickly, are we clear on
- 14 the difference between open and closed captions and
- 15 description?
- MR. CARSON: I'm not.
- 17 MR. REID: Okay. So open captions are
- 18 embedded into the video itself. That's what you might
- 19 think of as subtitles that you can't turn off. So you
- 20 know when you're watching a movie in a theater and
- 21 part of it is subtitled, that's an open caption.
- 22 Think of it that way.

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Same with video description. If it was an 1 open video description, that might mean that it's playing whether you like it or not. You can't turn it on or off. If it's closed, on the other hand, you can 5 toggle it and or off. Is that a fair description? 6 MR. PHILLIPS (via interpreter): Right. MR. CARSON: Steve, you've often, in the course of these hearings, reminded us of the proponents' burdens of proof. We have an assertion which, just by reviewing the comments, on the face of 10 it seems to be correct, an assertion by the proponents 11 that they did make a case for fair use, and you never 12 13 actively responded to it. So here's your chance. 14 Why is -- what's wrong with the case they 15 made in their proposal that the activity they want to 16 engage in is fair use? 17 MR. METALITZ: Okay. Well, I think I now 18 know more than I did 15 minutes ago about what they 19 want to do. And it's -- you know, maybe I'm -- maybe 20 it's my own density, but I now understand they have --21 as I understand it, they have players that will enable 22 this if circumvention -- if they could add a

- 1 circumvention capability to those players. That seems
- 2 to be what was said. So it's not a question of
- 3 distributing copies that -- or altering the copy.
- 4 Again, thinking about this in the fixed disc
- 5 scenario, you're not distributing altered copies or --
- 6 or generating new copies and distributing them, as I
- 7 understand it. And that obviously has an impact --
- 8 could have an impact on the fourth factor, fair use
- 9 factor, what's the impact on the market. So I think
- 10 it improves the argument for fair use because there's
- 11 not actually a different product out in the market, as
- 12 I understand.
- 13 MR. REID: That's correct. I mean, the one
- 14 caveat I'd offer to this -- and, again, unfortunately,
- 15 Netflix is not in the room, but when they're talking
- 16 about needing to circumvent to add captions to their
- 17 stuff -- and, again, I don't know if this is something
- 18 they actually want to do or they're just saying this
- 19 in court as an excuse; maybe you could ask them in a
- 20 post-hearing question -- they're obviously
- 21 distributing accessible content after the fact.
- 22 And that's presumably pursuant to a license,

- 1 and I'm not privy to the details of their arrangement
- 2 with the folks on the content creation side of the
- 3 fence, so it's a little bit hard to argue on their
- 4 behalf here, but they're obviously distributing some
- 5 product.
- 6 But we still think that if Netflix is -- and
- 7 I want to be clear about this. If Netflix has to
- 8 crack the DRM on the videos it receives from the folks
- 9 on the content side of the house to make the videos
- 10 accessible, then we think that's a fair use
- 11 nonetheless.
- MR. METALITZ: May I ask a question? Are you
- 13 talking about streaming video from Netflix --
- MR. REID: Yes.
- MR. METALITZ: -- or are you talking about
- 16 distributing the discs?
- 17 MR. REID: I'm talking about streaming video.
- 18 Do they still send out discs?
- MR. METALITZ: But they may call it something
- 20 different.
- 21 MR. REID: Flixter or whatever. Sorry.
- MR. METALITZ: Okay. I guess I'm not that

- 1 clear on what your point is about Netflix. They told
- 2 you -- or they have represented that they can't do
- 3 what you want because it would be a DMCA violation?
- 4 MR. REID: That's correct. And I read a
- 5 quote from them earlier in the day. Do you want me to
- 6 read it again?
- 7 MR. CARSON: That was in court in
- 8 Massachusetts, I think you said?
- 9 MR. REID: Yeah. I can give you the Westlaw
- 10 cite if you'd like to see it.
- MR. MARKS: That would be good.
- MR. REID: Let's see. So in addition to
- 13 circumventing or to infringing copyright, quote,
- 14 captioning may also require Netflix to decrypt digital
- 15 rights management protections that accompany video
- 16 files, a separate violation of the Digital Millennium
- 17 Copyright Act which prohibits, quote, circumventing a
- 18 technological measure that effectively controls access
- 19 to a work protected by copyright, blah, blah, blah.
- 20 And that is 2012 Westlaw 157-8335, and that's
- 21 in the District Court of Massachusetts on the 1st of
- 22 May 2012.

- 1 MS. KINNEY: Can I just -- this is Linda --
- 2 speak to that? I think that at least as of September
- 3 of this year, the new content that's being provided to
- 4 Netflix will be provided to them with a captioning
- 5 file. So all the content that we are providing, this
- 6 prerecorded content -- so the television episodes, the
- 7 motion pictures, the films, other things that --
- 8 again, all of our content is really on TV. So we will
- 9 provide them the actual captioning file. So they
- 10 don't need to caption it individually.
- 11 And I think that's really -- and maybe that's
- 12 evolving over time because these new requirements are
- 13 coming into play right now. But -- and I don't know
- 14 whether they're speaking to the past but, from the
- 15 future, going forward, it's going to be the content
- 16 owner really is the one in the post-production process
- 17 who's adding the captions and providing the file to
- 18 Netflix.
- 19 MR. CARSON: So we're looking at a three-year
- 20 window. When is that going to be happening?
- 21 MS. KINNEY: So the first deadline is
- 22 September of this year, and that's for all prerecorded

- 1 content.
- 2 MR. REID: That's unedited.
- MS. KINNEY: Yeah. Then we have another six
- 4 months after that, so it would be March of 2013, and
- 5 that's for live or near live content, which is harder
- 6 to do. And then you have another six months -- it
- 7 will be September of 2013 where you have edited
- 8 content.
- 9 So, for example, if you have Sex in the City
- 10 and you have an edited version that edits out certain
- 11 language or other things that are inappropriate for,
- 12 say, PG viewing, the captions have to be redone or
- 13 they're not going to sync up with the programming.
- 14 And to make it a quality captioned accessible video
- 15 with that new editing involved, it takes more work on
- 16 the back end.
- 17 MR. CARSON: But it's also going to have
- 18 words you don't want in it.
- 19 MS. KINNEY: Yes. Right.
- 20 MR. REID: Let's be clear, because that was
- 21 not quite a complete picture. There's also a 24-month
- 22 deadline, so six months, I think -- I don't know if

- 1 it's two years from January 1st or six months after
- 2 the 18-month deadline, either way -- for video -- it's
- 3 called archival content, so stuff that's on Netflix
- 4 right now without captions that will, after the rules
- 5 kick in, which I think they have already kicked in;
- 6 they've been in the Federal Register, that's then
- 7 shown on TV later with captions for the first time.
- 8 Netflix -- so that's only talking about brand new
- 9 content that goes to Netflix.
- 10 Stuff that's sitting in Netflix's archive
- 11 because it's already been shown on TV that then is
- 12 syndicated again later, that doesn't have to happen
- 13 for another two years. And we're only talking about
- 14 content that has been shown on TV with captions and,
- 15 again, there are 15 categorical exemptions for
- 16 programming, for example, for studios that -- they
- 17 don't have to spend more than 2 percent of their gross
- 18 revenues for a channel per year to do captioning.
- 19 They don't have to do any captioning if they're in the
- 20 first four years of existence. They don't have to do
- 21 any captioning if they make less than \$3 million in
- 22 revenue for a channel. I could go on and on. There's

- 1 hundreds of individualized exemptions. So we're not
- 2 talking about the entire world of programming that
- 3 Netflix might show. We're talking about some of the
- 4 files that they're captioning.
- 5 And, again, as we've pointed out in our
- 6 brief, Netflix has been sort of difficult about
- 7 explaining exactly how much captioning they have.
- 8 They say, oh, we make -- 80 percent of our streamed
- 9 hours are captioned, Which ws sort of like, well,
- 10 yeah, a lot of people are watching the shows that you
- 11 have that have captions on them because people want
- 12 captions, and they aren't watching the shows that
- 13 don't have captions. But we don't know exactly how
- 14 much their library is actually captioned.
- But the point is they're saying -- or they're
- 16 at least arguing to the federal court, hey, for the
- 17 stuff that we don't get from the content folks with
- 18 the caption file intact, we'd like to be able to do
- 19 that for ourselves, but we can't do it because of the
- 20 DMCA.
- 21 MS. KINNEY: And just to clarify -- I think
- 22 we're not really that far apart in the sense that our

- 1 only point is the content owners now are investing
- 2 enormous resources to make this content accessible.
- 3 And to the extent it is accessible, we don't think
- 4 that there should be an exemption for that content.
- 5 And it's not just content that is required to
- 6 be accessible. Our studios are going above and beyond
- 7 the requirements of the FCC and providing many more
- 8 captions, and some to archival content that's not
- 9 currently required. And so if that -- if we've
- 10 invested those resources, our -- at a minimum, our
- 11 request is anything that is accessible does not apply.
- 12 You know, an exemption would not apply for that
- 13 content.
- MR. CARSON: It sounds like you've come very
- 15 close to saying that if you're not making it
- 16 accessible, you have no problem with them
- 17 circumventing in order to make it accessible. Is that
- 18 where you are?
- 19 MS. KINNEY: Well, with the exception of the
- 20 things that Steve has talked about. I think there are
- 21 several other issues involved here. But at a minimum,
- 22 we are concerned that there would be an overbroad

- 1 exception.
- 2 MR. KASUNIC: But doesn't that come back to
- 3 the question of, what is accessible? If it's not
- 4 customizable, in your view, would that not be
- 5 accessible?
- 6 MR. REID: That's right. And, again, I want
- 7 to say -- again, we really appreciate what you guys
- 8 are doing both within the letter of the law and the
- 9 regulations and above and beyond that. And we know
- 10 you guys are doing more than that, and we appreciate
- 11 that. But again -- and, again, we don't want to spend
- 12 people's time -- you know, we don't want to have
- 13 crowdsource volunteers, we don't want to have
- 14 Dr. Vogler cranking away on circumvention code to make
- 15 stuff accessible that's already accessible. I think
- 16 we're all in agreement about that.
- 17 But, again, I want to emphasize that all of
- 18 these bells and whistles that we've talked about, the
- 19 ability to customize the appearance, is really
- 20 important, and I don't think we've said the word "deaf
- 21 and blind" quite enough today. There are folks that
- 22 are both -- have both -- that are both deaf or hard of

- 1 hearing and visually impaired. They need to be able
- 2 to increase the size of the captions. They might have
- 3 color blindness that requires particular color
- 4 combinations. People have different size TVs in
- 5 different size rooms in their houses. I mean, you can
- 6 imagine the sort of permutations. The ability to
- 7 customize the captions is really, really important for
- 8 works to actually be accessible.
- 9 So when we say we don't have a problem with
- 10 this exemption having a limitation in it for works
- 11 that are already accessible, we want to make sure that
- 12 that definition of accessible means it's got all the
- 13 bells and whistles, it's customizable, it meets up
- 14 with the CEA-708 requirements and all of the above.
- 15 But, again, we're not opposing it in principle.
- MR. CARSON: Dean.
- 17 DR. VOGLER (via interpreter): If I may as
- 18 well. I just wanted to stress again what Blake has
- 19 just said about this issue of accessibility and how we
- 20 define that. It's important to remember, as was said
- 21 earlier at a previous hearing, deaf and hard of
- 22 hearing and deaf/blind individuals are very different

- 1 in nature. So what accessibility means to one person
- 2 often can be an individual thing, but we can make
- 3 something more standard.
- So, for example, if you have good eyesight,
- 5 then you're able to have video with regular captions
- 6 online and find that to be accessible. But if you
- 7 don't have good eyesight or if you can't see at all,
- 8 just having the captions converted to Braille might
- 9 make it accessible, and just regular captions would be
- 10 insufficient.
- 11 So I just wanted to reiterate was has just
- 12 been said about accessibility and the definition of it
- 13 needs to be taken in the context of the differences
- 14 that we see in the general population.
- 15 MR. CARSON: Dean.
- 16 MR. MARKS: I just wanted to say I think the
- 17 dialogue you had back and forth with Blake and
- 18 Dr. Franklin was very helpful in terms of the notion
- 19 of the end goal is to create players that can interact
- 20 with the product as it's sold to the marketplace. So
- 21 not talking about distributing -- and I'm speaking
- 22 here on the optical disc world of distributing DVDs or

- 1 Blu-Rays that have had all their protection stripped
- 2 off.
- 3 MR. CARSON: Sort of sounds like the old
- 4 clear play versus clean play situations for those of
- 5 you who recall that.
- 6 MR. MARKS: Exactly. Exactly. No, I think
- 7 that's sort of where I'm going. So two points. One,
- 8 I want to make sure that the marker is put down that
- 9 we're not only willing to engage in terms of the
- 10 research for the technology, but to the extent that
- 11 somebody is making the sort of player that Blake
- 12 described, from AACS' vantage point, it's much better
- 13 if that player is a licensed player, decrypts the
- 14 technology -- decrypts, sorry, the AACS DRM, plays
- 15 back the content, does whatever overlays are necessary
- 16 to make the content more accessible for the community,
- 17 and ends up protecting the content rather than the
- 18 sort of player you described, which is the player has
- 19 the overlay, and then the person has to go and
- 20 incorporate a circumvention tool to make the player
- 21 actually function.
- 22 It's better for us as both the licensor of

- 1 the technology and, frankly, as the content owners who
- 2 are using the technology, the DRM, in the first place
- 3 to protect their content to have sort of a complete
- 4 package of a licensed player. I want to -- so we are
- 5 willing to also work with player manufacturers who are
- 6 seeking to accomplish what Blake described.
- 7 What I want to say also, in respect of that,
- 8 is with our license comes certain obligations. So,
- 9 for example, you know, the AACS license doesn't allow
- 10 the digital content to go out in the clear, a digital
- 11 output for example. So we would expect a player to
- 12 conform with the other obligations of the license, but
- 13 plenty of software players do, and there would really
- 14 be no reason why a player that incorporated
- 15 disability -- accessibility features couldn't do the
- 16 same thing.
- 17 So it was a long-winded way of saying as --
- 18 we would actually like to work with the folks who are
- 19 making these sorts of -- I assume they're probably
- 20 software players; is that right?
- 21 MR. REID: I mean, I think that's primarily
- 22 the idea. I mean, the only response I can say is the

- 1 even better solution would be if the consumer
- 2 electronics manufacturers were making players that had
- 3 all these features in it instead of asking the FCC to
- 4 exclude them from the rules.
- 5 MR. MARKS: Unfortunately, I can't speak for
- 6 the consumer electronics manufacturers because my
- 7 other hat is as a studio, so...
- 8 MR. CARSON: There's one other hat that might
- 9 be missing from this equation. Are you or is anyone
- 10 else in the room in a position to speak on behalf of
- 11 DVD CCA?
- MR. MARKS: That was my second point. Thank
- 13 you for that nice introduction. Okay. So I wear
- 14 multiple hats, and I am a board member of the DVD CCA.
- 15 I sit on the board of the DVD Copy Control Association
- 16 which is the group that licensing the CSS technology.
- 17 And I believe that the DVD CCA would support
- 18 the positions that I articulated on behalf of AACS LA
- 19 and also give a free license for research to improve
- 20 accessibility to the extent that the CSS was
- 21 interfering with that, and also be eager to work with
- 22 player manufacturers to license those so that it could

- 1 be one seamless operation. I would certainly advocate
- 2 for that as a board member.
- If the panel asks a question, which I really
- 4 hope they will, then we can go back to the full board
- 5 of DVD CCA in order to submit a written reply that
- 6 gives confirmation. But I would advocate for it, and
- 7 I believe, knowing DVD CCA as I do, that -- that I
- 8 think they would be in the exact same position.
- 9 MR. CARSON: Here's one suggestion just to
- 10 throw out there, see where it lands. I mean, our time
- 11 is limited. We have to make some decisions relatively
- 12 soon.
- MR. MARKS: Right.
- MR. CARSON: Nobody up there has a clue where
- 15 we're going to come out. If you do have a clue,
- 16 you're probably wrong because I don't have a clue
- 17 where we're going to come out.
- 18 MR. MARKS: Right.
- 19 MR. CARSON: So that uncertainty might be an
- 20 incentive for you folks to sit down together and see
- 21 if you can work something out to your mutual
- 22 satisfaction. Maybe you can, maybe you can't. But if

- 1 you can, then you avoid the uncertainty of where we're
- 2 going to end up and, as I said, if you -- if you think
- 3 you know where we're going to end up, then you're
- 4 ahead of us.
- 5 Let's put that out there for what it's worth.
- 6 MR. MARKS: I would say we really welcome
- 7 that. So -- I mean, this has been very, very
- 8 educational for me, and so...
- 9 MR. METALITZ: David, if I -- since I know
- 10 we're just about out of time --
- MR. CARSON: Actually, we're going to take
- 12 whatever time we need because we want to make sure we
- 13 have a full record, so go ahead.
- 14 MR. METALITZ: Okay. I think today this has
- 15 been very useful in terms of flushing out a record
- 16 that really was quite deficient prior to today. I
- 17 would say that what I've heard today lessens the
- 18 concerns that we had about whether this use is, in
- 19 fact, non-infringing, the use that they're proposing
- 20 to make, since I think we have a little better
- 21 understanding of what that is. But it does leave me
- 22 with several questions, which I hope the -- that

- 1 the panel will -- the copyright office panel will
- 2 think about. And, again, if you deem it appropriate,
- 3 we'd welcome the chance to make a further submission
- 4 on this.
- 5 One is I still think we have a very, very
- 6 weak record as to whether circumvention is necessary
- 7 to make the use that is required. In fact, Netflix
- 8 said something in a case five weeks ago that we didn't
- 9 hear about till we walked in here, and I know nothing
- 10 about that case. We'll go take a look at it, but I
- 11 don't think that establishes that there would be some
- 12 DMCA violation.
- The second point is, as Dean said, I think
- 14 there's probably a lot that could be done here to
- 15 authorize circumvention, if you will, to license the
- 16 type of activity that's being requested, especially
- 17 the research and development part of it which is
- 18 predominant, I think, in the submission that the
- 19 proponents have made.
- 20 The third point is I think there is not --
- 21 the proponents have the burden of showing that
- 22 alternatives don't satisfy -- the alternatives are not

- 1 viable for them to be making the non-infringing use.
- 2 And we've heard about synchronization in the
- 3 video description area. It could certainly apply in
- 4 the captioning area. There obviously are problems
- 5 with that, but there also could be a solution to some
- 6 extent. So I think that probably needs to be more
- 7 fully developed before you can conclude that the
- 8 burden has been satisfied.
- 9 And the final point is I think there's an
- 10 extremely fine line between the business model that
- 11 was presented today, which, as I understand it, is to
- 12 distribute software players that will achieve the
- 13 objective if they are married up with circumvention
- 14 software -- I think there's a very fine line between
- 15 that and trafficking in circumvention devices. So I
- 16 don't -- it's not totally clear to me that the
- 17 objective that the proponents are seeking to achieve
- 18 can be achieved with an (a)(1) exemption solely or
- 19 whether (a) (2) would also figure into this.
- 20 And I say that, again, having just heard for
- 21 the first time today exactly what they plan to do, or
- 22 more about what they plan to do. So that's an issue

- 1 on which, if you think it's appropriate, we'd be
- 2 interested in making -- in thinking about it a little
- 3 more and making a further submission. But I think
- 4 that's another issue that you would need to --
- 5 MR. CARSON: I see the point. Yeah.
- 6 Chris.
- 7 MR. REED: Sort of to further that point, I
- 8 hear really five different uses of creation, playback
- 9 sort of fixing or repairing, customizing the
- 10 accessibility content, and then the research and
- 11 development that sort of underlies all of that. But
- 12 it strikes me that the non-infringing uses, perhaps
- 13 more specifically the fair use calculus that underlies
- 14 each of those, may well be different and, likewise,
- 15 the degree of circumvention needed to accomplish all
- 16 those may well be different.
- 17 MR. REID: I agree with you on the second
- 18 point, I mean, to the extent that we're talking about
- 19 several different activities. I disagree,
- 20 respectfully, on the first point. I think, as we laid
- 21 out in our brief, this is per se fair use. We're
- 22 talking about making works accessible for people that

- 1 have already paid to access them.
- 2 And, moreover, we're talking about works that
- 3 Congress has specifically said, you need to make these
- 4 works accessible unless you can't afford to do so or
- 5 unless it's going to impede innovation to do so.
- 6 So if the excuse is, well, it takes time, we
- 7 need more -- you know, it's been too expensive for us,
- 8 it's going to take three years or however long it's
- 9 going to take -- that's core fair use that we're
- 10 talking about here, and I don't think that makes a
- 11 whole awful lot of difference.
- MR. REED: And the authority for that was
- 13 Sony and the '76 House report; is that right?
- MR. REID: Yeah, but I mean, I think the
- 15 authority beyond that is just the statutory factors
- 16 for fair use. When we look at the effect on the
- 17 market, I think we've -- and I've read a lot of
- 18 this -- that we've got a 15-year record at the FCC of
- 19 folks, with all due respect, like the Motion Picture
- 20 Association, saying, hey, please don't impose any
- 21 rules on us to do this. Relax the rules as much as
- 22 possible because this stuff is too expensive, it takes

- 1 too long, it's going to hinder innovation and content,
- 2 if you make us do this, we're going to start putting
- 3 out less content, and so on and so forth.
- 4 And I think -- we've presented some examples
- 5 in our filing, but there's a detailed record at the
- 6 FCC and at Congress of this happening.
- 7 And, I mean, I don't think you need to look
- 8 too far beyond the recent accessibility legislation
- 9 itself. If we'd had our druthers about it, it would
- 10 have covered all online programming altogether, it
- 11 would have incorporated DVDs. But, instead, it got
- 12 this loophole, at the behest of folks in the industry,
- 13 to only cover stuff that's been on television with
- 14 captions. And so -- you know, I think that ought to
- 15 play into your calculus.
- 16 MR. REED: Beyond just building the players,
- 17 it sound like -- software or hardware players -- it
- 18 sounds like those players would be required to be
- 19 combining a lawfully acquired copy of copyrighted
- 20 content, DVD or a stream, with some database of the
- 21 additional -- we'll call it accessibility content.
- MR. REID: Sure.

- 1 MR. REED: Is that database not -- it strikes
- 2 me that that is a sort of a large database of
- 3 derivative works. But your position is that that's
- 4 fair use because of the authority you just cited; is
- 5 that right?
- 6 MR. REID: I think that's correct, but I have
- 7 to question whether it's a derivative work. I mean, I
- 8 think we're talking about -- in the specific instance
- 9 where we're talking about error correction of specific
- 10 caption content, I mean, I think we're talking about
- 11 very short phrases. I don't think we even get into
- 12 the derivative works.
- MR. REED: Well, that makes sense to me, but
- 14 I'm thinking about a situation where -- I mean, one of
- 15 the other uses that I just articulated was creation.
- 16 And so if you have a DVD that, for whatever reason,
- 17 doesn't have any captions on it and somebody wants to
- 18 create that, now you've effectively got, I think, a
- 19 transcript, don't you?
- 20 MR. REID: Yeah, I mean, I think that's
- 21 correct, but I want to be careful on how I address
- 22 this because I know there's precedent, and

- 1 Mr. Metalitz mentioned concerns earlier about
- 2 translations, and there's a translation right that we
- 3 understand the motion picture folks want to be able to
- 4 take a movie and sell it in France six months or a
- 5 year later in French or in other languages and so on.
- 6 And I think the main distinction that we want
- 7 to make sure we draw there is we're not talking about
- 8 translations to foreign languages. We're talking
- 9 about translations that Congress has explicitly
- 10 required in a number of contexts and has said, you
- 11 have got to make these translations unless you can
- 12 make a showing of some sort of financial burden to do
- 13 so.
- 14 So we think, to the extent that there's some
- 15 copyright interests that might have existed prior to
- 16 these accessibility bills coming into law, that right
- 17 has been abrogated and no longer exists.
- 18 MR. REED: You had mentioned a few times that
- 19 clips -- under the new FCC rules that clips are not
- 20 required; they're one of the categorical exemptions;
- 21 is that right?
- MR. REID: That's correct.

- 1 MR. REED: Are you alleging that there are or
- 2 will be circumstances where content that was in full
- 3 form, required to be captioned when it first aired on
- 4 television, that in clip form would not be captioned
- 5 when they're online?
- 6 MR. REID: That's exactly the case. And
- 7 you've actually just described what -- plus or minus,
- 8 what the FCC rule is. And in the interest of full
- 9 disclosure, I should say we've petitioned for
- 10 reconsideration for that part of the issue, which --
- 11 again, I'm sorry this proceeding doesn't happen a lot
- 12 more often, or we could come back and -- we could come
- 13 back and tell you we don't know when these petitions
- 14 are going to be resolved.
- But as it currently stands, the FCC's rule is
- 16 that only full-length programming is required to be
- 17 captioned, and anything less than full-length
- 18 programming -- any sort of excerpts of programming,
- 19 which we're particularly concerned about in the news
- 20 context. Most of the new sites that we see -- I think
- 21 a majority of the sort of mainstream news sites that
- 22 we see in our research, and particularly including

- 1 places like CNN, CNBC and so on, are presenting their
- 2 news online in clip format only with no captions, and
- 3 we're pretty deeply concerned about that.
- 4 And there have been -- there's a lawsuit
- 5 going on in California right now, under California
- 6 disability law, and CNN has said, we are -- CNN is
- 7 fighting this tooth and nail and saying, we are not
- 8 going to caption our clips unless the FCC makes us.
- 9 MR. REED: And these are things that would
- 10 have been captioned on their original broadcast. So
- 11 the captions exist somewhere; they're just not --
- MR. REID: Yes, that's correct.
- 13 MR. REED: I was actually going to ask why
- 14 that would be, if you have any sense of if that's true
- 15 or not.
- 16 MS. KINNEY: Yes. So the problem is, in
- 17 certain circumstances when you have live captioning,
- 18 particularly if you have, like, a local news broadcast
- 19 and you have a reporter that's off-site somewhere,
- 20 those captions, in order to make it accessible
- 21 immediately, because there may be a breaking story,
- 22 they're added sort of by the content provider at the

- 1 studio at the time.
- 2 So unlike prerecorded programming where you
- 3 have a captioning file, those captions -- that are
- 4 added in post-production, those captions, again, are
- 5 just sort of done at the time and added onto the
- 6 different -- to the local news broadcasts.
- 7 So when you then break up the broadcast and
- 8 put it on the web, you only have a full-length
- 9 captioning program. You don't have it -- you can't
- 10 segment it into subcategories which is usually how
- 11 this news broadcast is put on the web. So, right now,
- 12 that's the problem.
- 13 So news programming like The Today Show
- 14 that's put in its entirety onto the web, that would
- 15 have captions. Or 60 Minutes, any of these news
- 16 story -- or news-type programs that are posted in
- 17 their entirety. But if you wanted to search on the
- 18 web for individual -- like a one-minute segment by
- 19 some reporter who's off-site, that captioning isn't --
- 20 you can't then marry some captioning file with that
- 21 one-minute news segments because it's part of a much
- 22 longer captioning file. So that's why it's not posted

- 1 on the web in the same way, if that makes sense. It's
- 2 a different type of captioning.
- 3 MR. REID: Just to be clear, we don't agree
- 4 with most of the details that we just went through,
- 5 but that's a fight we're having in another context.
- 6 MR. REED: And then, with respect -- you had
- 7 also mentioned rental DVDs often don't contain
- 8 captioned information that is contained on the retail
- 9 version of the DVD. How widespread is that?
- 10 MR. REID: I don't have a great answer to
- 11 that, but there have been several sort of notable
- 12 examples. I think we mentioned that Disney's Up -- I
- 13 think there are a couple of others; Andrew may know
- 14 better -- but where the subtitles -- and they're, by
- 15 the way, not captions, but subtitles or subtitles for
- 16 the deaf and hard of hearing. A studio will call them
- 17 a bonus feature, or something like that, which we
- 18 think is kind of insulting, but you actually have to
- 19 go buy the retail version. Or, back when Netflix was
- 20 still distributing DVDs, there would be a special
- 21 rental version that Netflix would distribute, and it
- 22 would show up without the subtitles because they're a

- 1 bonus feature.
- I can't speak to precisely how widespread
- 3 that is, but we know that that's a problem, and we've
- 4 gotten a lot of complaints from our constituents about
- 5 it.
- 6 MR. PHILLIPS (via interpreter): If I could
- 7 just add, related to video clips not being able to
- 8 keep or retain the captions when they're shown online,
- 9 I think a few months ago at the National Association
- 10 of the Deaf we had met with one leading software
- 11 company, Computer Prompting and Captioning Company,
- 12 which is located in Rockville, Maryland, and they gave
- 13 us a demo of where they were able to take something, a
- 14 movie that was shown online that did have captions,
- 15 and they were able to extract the captions and put
- 16 them somewhere else online where you were able to
- 17 retain the captioning.
- 18 So the idea that you have a full-length
- 19 program and you can't actually retain the captions
- 20 within a video clip when it's extracted, that's
- 21 actually not what we believe, because there is the
- 22 software that's out there that makes it possible.

- 1 MR. REID: We understand there's some
- 2 software where what Ms. Kinney described is true and
- 3 other software where it's not possible, and the
- 4 software just isn't pervasive that permits the clips
- 5 to be sort of chopped up.
- 6 MS. KINNEY: Just to clarify, so that example
- 7 is indeed accurate. Prerecorded programming can be
- 8 chopped up in that way. In fact, that's how we edit
- 9 something like Sex in the City. We edit out parts of
- 10 it, and that will be then appearing on the web with
- 11 captions. It's usually the live captioning that's the
- 12 issue. And those are issues that I think, over
- 13 time -- major studios at least are looking into this
- 14 and trying to figure out how to do it and will work --
- 15 are working through those issues. But right now the
- 16 technology that's used in the newsroom is not --
- 17 you're not able to break it up into -- slice it up
- 18 into segments.
- 19 MR. REID: To be specific, the FCC's rules
- 20 are not specific about live versus non-live
- 21 programming. It's video clips in general. And, with
- 22 respect, if this an issue that's going to take more

- 1 than three years for the studios to sort through and
- 2 resolve, we'd submit to you guys that an exemption is
- 3 appropriate.
- 4 MR. RICHERT: If I may, you mentioned
- 5 derivative works, and I just want to weigh in on the
- 6 description side of that. So if the scenario you
- 7 described where there's a separate, if you will, audio
- 8 track that's synchronized with the original work,
- 9 clearly that separate description track is not, in our
- 10 view, a derivative work. It's -- it's an add-on
- 11 feature that someone else is providing to facilitate
- 12 description. It's not a copy of -- or -- you know, in
- 13 that sense, a true derivative work.
- Now, if we have a situation where -- and I
- 15 think the school example is one we cannot forget. If
- 16 we're expecting schools and educational institutions
- 17 generally to have the appropriate equipment, certainly
- 18 in the short term, they're not going to have it to be
- 19 able to do that kind of synchronized, sophisticated
- 20 rendering of stuff with description.
- 21 So what we're likely talking about, at least
- 22 in the short term, with respect to making video

- 1 programming, video content more accessible through
- 2 description is to have a video program that has, in
- 3 fact, been modified and, to one degree or another, has
- 4 been distributed to folks with disabilities who need
- 5 that content.
- 6 MR. REID: Just to tag onto this really
- 7 briefly -- I know we're running low on time -- but
- 8 this argument about derivative works and video
- 9 description and copyright and captions has been made
- 10 over and over again at the FCC. It comes up during
- 11 every single rulemaking where the distributors and the
- 12 content folks say only the content folks can do these
- 13 accessibility features.
- And the problem that we're having is they're
- 15 saying, on one hand, okay, it's our content, we own
- 16 the copyright in it, so we should maintain control
- 17 over it, and that means we should do the captioning.
- 18 Okay, we can understand that argument. But then to
- 19 have it coupled with the argument that, oh, by the
- 20 way, we can't afford to do captions and please don't
- 21 make us do captions and providing captions violates
- 22 our First Amendment rights, or providing video

- 1 description violates our First Amendment rights --
- 2 that was actually the basis of a lawsuit under which
- 3 the video description rules were thrown out in the
- 4 D.C. Circuit -- you can't have it both ways. It's --
- 5 either it's your responsibility or you have to let
- 6 other people get in on it. And I think that's the
- 7 reason we're here today.
- 8 MR. METALITZ: Let me just make it clear,
- 9 we're not trying to have it both ways. And I don't
- 10 think there's any question that we are talking about
- 11 the creation of derivative works here. The issue is
- 12 whether it's infringing, and that's where the fair use
- 13 argument comes in. But it's just as clear that this
- 14 is a derivative work -- you know, I think it certainly
- 15 fits well within that.
- I mean, I think the whole issue of
- 17 alternatives, which Mark was addressing -- and we've
- 18 heard today just in this hearing, at least on two
- 19 occasions, about software that apparently can extract
- 20 caption files without circumvention.
- MR. REID: And I'm --
- MR. METALITZ: I mean, there may be

- 1 differences there, but I just think all of these need
- 2 to be explored.
- 3 MR. REID: I mean, we're talking about
- 4 software that does this on video that doesn't have DRM
- 5 or -- I think there was the moment yesterday where
- 6 someone says, yes, there's great software out there,
- 7 and it's called HandBrake. I think it's the same sort
- 8 of deal. We can design really great software -- the
- 9 software that Christian has cooked up is really great,
- 10 but it doesn't work with DVDs unless we can load in a
- 11 library that circumvents the CSS.
- MR. MARKS: Just one quick question on behalf
- 13 of DVD CCA, which I'm not officially representing.
- 14 What I wanted to do is, you know, just ask whether --
- 15 without requiring you folks to ask us a question --
- 16 may we submit a statement about what I presumed is
- 17 going to be DVD CCA's position on the free license for
- 18 researching and the willingness to work with the
- 19 player manufacturers? It would be obviously a very
- 20 short statement, but I would like to be able to do
- 21 that if that's possible.
- 22 MR. CARSON: If the statements -- the reason

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    I'm being cautious here is we -- the record is what it
    is and --
 3
            MR. MARKS: Right.
             MR. CARSON: -- it's not going to be anything
   further unless it's in response to a direct question
    from us. So that's the reason I'm being a little
    cautious here.
 8
            MR. MARKS: Okay.
 9
             MR. CARSON: But if what you're saying is a
   letter from DVD CCA saying, what he said we say, you
10
11
    know --
12
                        That's basically it.
            MR. MARKS:
13
            MR. CARSON: -- you don't have to quite put
    it that way, but I think that's not a problem and we'd
15
   welcome that.
16
            MR. MARKS: Okay. Thank you very much.
17
            MR. CARSON: Now, where that takes us, I
18
   don't know.
19
            MR. MARKS:
                        Okay. I understand.
20
            MR. CARSON: So, in conclusion, I guess, I'll
21
    reiterate -- I'm sorry, Professor Vogler.
22
            DR. VOGLER (via interpreter): Just briefly
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- 1 for the record, I would say -- I would be more than
- 2 happy to work with you to make -- and also the player
- 3 manufacturers so that we can coordinate those efforts.
- 4 There's been a past history, however, of showing an
- 5 inability to work well with the player manufacturers
- 6 because the HDMI requirements don't necessarily work.
- 7 And part of the FCC ruling is to make sure that the
- 8 DVD and the players actually are able to show closed
- 9 caption on HDMI. And CEA has never filed a
- 10 consideration on that, even though it's very easy to
- 11 do. It's not happening.
- MR. REID: And, again, there's the issue that
- 13 you brought up earlier which is, does this license or
- 14 permission, our blessing -- as much as we appreciate
- 15 it from Mr. Marks -- actually get us out of liability
- 16 under 1201? And I think the concerns that you
- 17 mentioned suggest that it's not.
- 18 And, again, it's a little bit late in the
- 19 game for us to be having this sort of detailed
- 20 argument that wasn't really presented in these terms
- 21 earlier.
- MR. CARSON: Well, I think, to be fair, what

- 1 I'm hearing from this side is that it wasn't entirely
- 2 clear to them precisely what you're asking for. Now
- 3 that they have a better sense of it, there may be
- 4 something they can do.
- 5 But all I'll say on that point is we're going
- 6 to continue, obviously, to work on this, and we're
- 7 going to, as soon as we can, certainly by the end of
- 8 the summer, give a recommendation to the librarian on
- 9 what to do.
- 10 To the extent that you can make it easier for
- 11 us and maximize the chances of getting a desirable
- 12 result by sitting down and working out a way in which,
- 13 in whole or in part, what you're seeking is something
- 14 that you can live with and you've work out a deal
- 15 where that is licensed, that's to everyone's benefit.
- 16 And I'm not suggesting it has to be a deal
- 17 that covers everything. If it covers part of it, that
- 18 makes our job easier and it gets you a guarantee that
- 19 you can do what you can do under whatever you work
- 20 out, if you can work it out, and everyone is a winner.
- 21 And, you know, maybe we're left to mop up the stuff
- 22 that didn't get included in that.

167 It's ambitious, I think, obviously, in terms 1 of timing. Maybe it can happen, maybe it can't, but I encourage you at least to have those discussions because, as I said, at this point, it's a crap shoot for both sides. 5 6 MR. REID: Can I ask -- or maybe I'll just let you know, the docket at the FCC where a lot of 7 these issues are still in the process of being resolved is at the media bureau. It's number 11-154. 10 MR. CARSON: I assume that's in our record, 11 isn't it? 12 MR. REID: It should be in the record. Please let us know if there's any more information we 13 can provide about the latest and, if you'd like, we 15 can let you know when decisions come out that are 16 related to what we've talked about today. 17 MR. CARSON: I think it's fair to say if 18 there are any decisions by the FCC that are pertinent 19 to this, yeah, please just send them on to us. 20 MR. REID: Okay. 21 MR. CARSON: Preferably without editorial 22 comment unless you think perhaps to understand it you

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   need go give a brief summary of what the decision is.
 2
             MR. REID: Dastardly decision.
             MR. CARSON: Anything else from anyone?
 3
             All right. It is five minutes to 1:00, and
   I'm going to -- I think we will reconvene at five
 5
   minutes to 2:00 promptly. I think there's enough give
   in the schedule that we can still finish by the end of
   the day, and this gives everyone an opportunity to
   have lunch.
 9
10
             (Whereupon, a luncheon recess was taken at
11
   12:55 p.m.)
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1	AFTERNOON SESSION
2	(2:01 p.m.)
3	MR. CARSON: Let's get started, folks. We're
4	already starting late, and that's not your fault;
5	that's just because the last panel ran long. But
6	hopefully we can catch up to the schedule, hopefully
7	by the end of this panel. We'll see how kind of
8	how lively you are.
9	So this is a panel to discuss proposed
10	exemptions 4 and 5. We actually have proponents only
11	for class well, initially, we only had proponents
12	only for class 4, but since we have an opponent for
13	class 5 who wanted to speak here, a proponent for
14	class 5 has elected to come out here to respond.
15	So here's going to be the order. Aaron
16	Williamson, proponent of class 4, followed by Jay
17	Sulzberger and Brett Wynkoop, also proponents for
18	class 4, followed by do you have a preference who
19	goes first? Jesse Feder, an opponent of class 4 and 5
20	and, finally well, not finally Steve Metalitz,
21	an opponent of class 4, and finally Marcia Hoffman,
22	who spoke in California but is being given an

- 1 opportunity here to address anything said by the
- 2 opponents at this meeting.
- 3 So with that, let's start with Aaron.
- 4 MR. WILLIAMSON: Thanks, David. As you said,
- 5 my name is Aaron Williamson. I am attorney with the
- 6 Software Freedom Law Center. I represent copyright
- 7 owners. My clients produce free and open source
- 8 software for distribution to the general public under
- 9 generous copyright terms.
- 10 I'm here to propose the exemption for
- 11 computer programs that enable the installation and
- 12 execution of lawfully obtained software on a personal
- 13 computing device where circumvention is performed by
- 14 or at the request of device owner. Essentially, I'm
- 15 here to propose an exemption that would allow my
- 16 clients to produce software for available hardware.
- 17 This exemption is an expansion of the mobile
- 18 phone jailbreaking exemption granted after the 2009
- 19 rulemaking. That exemption was granted on July 26th,
- 20 2010 and, since, the market for applications has
- 21 expanded uninterrupted.
- 22 Apple, the primary opponent of that

- 1 exemption, has now seen more than 25 billion
- 2 applications sold in its App Store. The Android
- 3 market has sold well over 10 billion. And as
- 4 intended, the exemption has bolstered the market for
- 5 applications that aren't approved by Apple for
- 6 inclusion in the App Store. As my colleagues at the
- 7 Electronic Frontier Foundation have pointed out,
- 8 Cydia, the third-party store, available only to owners
- 9 of jailbroken devices, has been accessed through
- 10 50 million different iOS devices.
- When the 2000 (sic) rulemaking began,
- 12 smartphones were relatively new. The iPhone had only
- 13 been released the previous year, and the first Android
- 14 phone was two months old. Now, a mere three years
- 15 later, the majority of Americans own smartphones.
- 16 This incredible growth has spurred the introduction of
- 17 other types of mobile computing devices that have
- 18 themselves become ubiquitous in the last three years.
- The iPad, for example, was introduced on
- 20 April 3rd, 2010, four months before the librarian of
- 21 Congress granted the jailbreaking exemption for
- 22 smartphones. Today, over 67 million iPads have been

- 1 sold.
- 2 The Amazon Kindle, in its infancy during the
- 3 2009 rulemaking, has been through six different models
- 4 and, by the end of last year, was selling a million
- 5 units per week.
- 6 These new devices, along with video game
- 7 consoles, personal music players, set-top boxes, smart
- 8 watches and a host of other new personal computing
- 9 platforms, have in a very short time supplanted the
- 10 personal computer for a number of common uses.
- Perhaps the best example of this can be seen
- 12 right here in this room. At the technology
- 13 demonstration hearing, I counted at least three people
- 14 taking notes on their iPads rather than on a laptop.
- 15 But people are using personal computing devices, like
- 16 tablets and smartphones, in place of personal
- 17 computers for most common computing tasks. They read
- 18 e-mails on smartphones and e-book readers, they browse
- 19 the web and produce art on iPads, and they track the
- 20 progress of their exercise routine on smart watches
- 21 that talk to their smartphones which sync to their
- 22 tablets. The personal computer has had a good run,

- 1 but the personal computing device is ascendant.
- 2 But just as Apple and the iPhone produced the
- 3 momentum behind this wave of new devices, they also
- 4 set a trend that endangers innovation. The lock-down
- 5 that Apple imposed on the iPhone, which prevented
- 6 users from installing any software that hadn't been
- 7 preapproved by Apple and ensured that Apple would face
- 8 no competition to its star applications, is now an
- 9 industry standard. Android phones are largely
- 10 considered more open devices than iPhones, but nearly
- 11 every Android phone available prevents users from
- 12 replacing the operating system or from accessing
- 13 select functionality. All mass market e-readers are
- 14 locked down almost identically to the iPhone,
- 15 prohibiting the installation of non-approved
- 16 applications and after-market operating systems. The
- 17 same is true for video game consoles.
- 18 These locks have become so ubiquitous on
- 19 mobile computing devices that, in the last three
- 20 years, they have found their way back to traditional
- 21 personal computers, a class of devices previously
- 22 quite open to third-party innovation. Microsoft is

- 1 leading the way in this, recognizing that the smaller,
- 2 lighter computers of the future will run on the ARM
- 3 architecture, the favorite platform for mobile
- 4 devices, rather than on Intel chips. Microsoft
- 5 recently mandated that any ARM-based Windows device
- 6 must irreversibly prevent users from installing
- 7 unapproved operating systems. This policy applies not
- 8 only to Windows phones and tablets, but also to the
- 9 new class of ultralight notebooks already being
- 10 produced by such vendors as Qualcomm and ASUS.
- 11 Microsoft is also taking a page from Apple's
- 12 App Store book and will only allow the next generation
- 13 of Windows application, called Metro applications, to
- 14 be sold through the Windows store.
- These locks are often billed by operating
- 16 system vendors as security features, but their primary
- 17 purpose and effect is to impede competition. Personal
- 18 computers were fertile ground for innovation in the
- 19 application and operating system markets because were
- 20 are free to innovate on top of the hardware available
- 21 to them. They didn't need to make deals with hardware
- 22 vendors in order to produce a competing software

- 1 product.
- 2 The locks imposed on new devices close this
- 3 route to innovation, which is the route taken by most
- 4 of the software success stories of our time.
- 5 Microsoft, Apple and Google made their first millions
- 6 building software for available hardware, unimpeded by
- 7 any effort by the hardware or operating system vendor
- 8 to stop them.
- 9 As we heard at the tech demo hearing,
- 10 Mozilla cannot count on having the same -- yeah,
- 11 cannot have the same opportunity to enter the mobile
- 12 operating system and mobile browser markets. They
- 13 were able to build their Boot2Gecko operating system
- 14 because this proceeding made it legal for them to gain
- 15 administrative access to modern smartphones that were
- 16 already available to test it on. They were able to
- 17 produce a stable version of the Firefox browser for
- 18 Android for the same reason.
- But while every other mobile operating system
- 20 vendor, including Apple and Microsoft, has adapted
- 21 their operating systems to tablets after tackling
- 22 smartphones, Mozilla will have trouble doing the same

- 1 because while tablet computers are essentially
- 2 identical to smartphones, except in their size and
- 3 marketing, it is not legal to circumvent the same
- 4 locks on tablets that it is on smartphones. The same
- 5 goes for e-book readers, personal music players and
- 6 the whole generation of devices we have yet to see.
- 7 In this way, locks served to protect
- 8 incumbents, who have relationships with hardware
- 9 manufacturers that are unavailable to upstarts, from
- 10 competition from new entrants like Mozilla.
- I expect that the first thing you notice
- 12 about this exemption is that it appears to be quite
- 13 broad, but I believe that it's only as broad as
- 14 necessary to enable innovation on the new generation
- 15 of computers. The devices that are replacing personal
- 16 computers are not susceptible to simple
- 17 categorization, something that was made apparent at
- 18 the hearing for the tablet computer exemption proposed
- 19 by the Electronic Frontier Foundation.
- The line between a tablet and an e-book
- 21 reader, for example, is arbitrary. Both are hand-held
- 22 computers, usually large than a phone and smaller than

- 1 a laptop with a prominent display, but what makes the
- 2 iPad a tablet and the Kindle Fire an e-book reader is
- 3 entirely a matter of the software installed on each by
- 4 the manufacturer.
- 5 The same is true for the line between a
- 6 smartphone and a tablet. The primary distinction is
- 7 size. Many tablets even contain cellular antennas
- 8 identical to those in phones. Tablets are usually
- 9 bigger, but new devices, like the Samsung Note, have
- 10 largely erased that distinction. The applications
- 11 available for each are essentially identical.
- I could go on, but the point is that these
- 13 devices are all personal computers with different
- 14 inputs, outputs and default configurations. They are
- 15 used for a set of tasks that overlaps broadly from one
- 16 device to another, and the justifications for and
- 17 interest in jailbreaking each of them are the same as
- 18 they are for smartphones.
- 19 Addressing each new type of device piecemeal
- 20 via this process not only doesn't make any sense,
- 21 given the lack of distinction between the devices, it
- 22 would critically burden innovation, leaving follow-on

- 1 innovators like Mozilla a minimum of three years
- 2 behind incumbents in producing software for new
- 3 devices.
- 4 To understand this, we can look at the iPad.
- 5 It was released during the last notice and comment
- 6 process and before the ruling was made. And by the
- 7 time of the ruling, over 3 million of them had been
- 8 sold, with all of the same restrictions as the iPhone.
- 9 The devices were nearly identical, and all of the same
- 10 reasons to grant an exemption applied on the day it
- 11 was released, but nonetheless hopeful developers had
- 12 to wait three years to even ask for the right to
- 13 innovate on top of the iPad platform. This is not how
- 14 innovation happens.
- 15 Finally, the exemption's inherent limitations
- 16 foreclose unintended consequences. It allows
- 17 circumvention only for the installation of licensed
- 18 software -- not even for the modification of
- 19 restricted software -- and only on hardware owned by
- 20 the user.
- I urge you to grant the proposed exemption,
- 22 which is well within your authority in this rulemaking

- 1 and is essential to innovation in the modern computing
- 2 age. Thank you.
- 3 MR. CARSON: Thank you very much.
- 4 Mr. Sulzberger and Mr. Wynkoop.
- 5 MR. WYNKOOP: Hi, there. Brett Wynkoop from
- 6 New Yorkers for Fair Use. I would like to start out
- 7 by saying that I am what might be considered a
- 8 copyright Nazi. I believe in strong traditional
- 9 copyright. But the DMCA has much less to do with
- 10 copyright than it does control. My term of art for
- 11 this law is the Digital Millennium Control Act because
- 12 it gives control of your personal computing devices to
- 13 the person that you bought the device from.
- 14 As Aaron so aptly pointed out in his opening
- 15 statement, most of the smaller computing devices,
- 16 physically smaller computing devices these days
- 17 prevent the owner from installing the software they
- 18 wish to install for their own purposes. The only
- 19 reason to lock these devices up that way is, as Aaron
- 20 said, to allow the incumbents to have control over
- 21 your computing environment rather than for you to have
- 22 control over your computing environment.

- 1 I have several of these small devices myself,
- 2 and it's absolutely vexing that it's a crime to use
- 3 them as I wish to use them. It is my tool. I have
- 4 purchased it. I have taken it home from the store.
- 5 So it should be up to me to employ my tool the way I
- 6 wish to employ it.
- 7 It's not -- it's not really correct to say,
- 8 oh, well, you can only use your computing device the
- 9 way the vendor you bought it from said. In that case,
- 10 you don't own the computing device; you have leased
- 11 the computing device; you have purchased essentially a
- 12 limited right to make only certain use of it.
- 13 From the standpoint of innovation, the -- it
- 14 indefinitely locks out small companies. I work for a
- 15 company in New York City called Hera (phonetic)
- 16 Partners. Our primary business is designing
- 17 e-commerce websites, but a secondary business we have,
- 18 because our customers have asked us to do this, is to
- 19 design tablet applications for both the iPad and
- 20 Android tablets.
- 21 The unfortunate thing is if the incumbents in
- 22 those markets -- namely Apple and Google -- decide,

- 1 oh, we don't want that application in our official
- 2 store, then you're locked out of the market because
- 3 not everybody in the country is going to go through
- 4 the process of breaking the encryption on their device
- 5 to allow the device to accept the software they want
- 6 it to accept.
- 7 The personal computer revolution came about
- 8 in the '80s. Because mainframes were, by design, very
- 9 restrictive and it was very time-consuming to get
- 10 anything changed on an application running on a
- 11 mainframe at your company, so as the personal computer
- 12 got more powerful, there were upstarts that began
- 13 innovating, and that's where we got, for instance,
- 14 spreadsheets, that's where we got word processors,
- 15 that's where we got a whole slew of applications that
- 16 we all take for granted today, and it was because
- 17 small personal computing devices that are much less
- 18 powerful than this computer that I've got in my pocket
- 19 were open and people could put on the software they
- 20 wanted and experiment the way they wanted to innovate.
- 21 To a first approximation, I don't believe
- 22 that the Digital Millennium Control Act even belongs

- 1 on the books in the United States of America, but the
- 2 reality is we have this odious piece of legislation
- 3 that our lawmakers so ill-advisedly passed, and we
- 4 have to come now to Washington every three years to
- 5 beg -- literally beg to be allowed to use our
- 6 computing devices. It's wrong.
- 7 I also don't believe that we should have
- 8 different classes of exemption for computing devices
- 9 of different physical sizes. As Aaron said, it's a
- 10 computer, whether it's physically this big or whether
- 11 it's this big or whether it's as big as the room.
- 12 It's a computer.
- 13 The computer I'm holding in my hand today is
- 14 many, many orders of magnitude more powerful than the
- 15 computer that I used on my first job as a UNIX system
- 16 administrator supporting that was several hundred
- 17 users in database searches. So just the fact that the
- 18 exemptions have to be laid out by what the physical
- 19 size of the computer is is ludicrous. And I would
- 20 urge you to allow the citizens of the United States
- 21 America to have private ownership of their computers
- 22 and to have the ability to employ their computers the

- 1 way they wish to employ them.
- Now, this is not to say that every citizen of
- 3 the United States is going to legally employ their
- 4 computer, but every citizen of the United States does
- 5 not legally employ their automobile. Every citizen of
- 6 the United States does not legally employ their
- 7 handgun. Every citizen of the United States does not
- 8 legally employ any particular tool that man has come
- 9 up with in the last many thousands of years. So to
- 10 outlaw a class of tools because some people may not
- 11 employ them legally is just totally wrong.
- 12 Instead, the focus should be on, oh, somebody
- 13 has done an illegal act, let's shut that person down,
- 14 let's put that person before the judicial system
- 15 appropriately. But don't criminalize the citizens of
- 16 the United States because they want to use their tools
- 17 to build and produce.
- I make my living off of copyrighted works.
- 19 As a matter of fact, I produced three copyrighted
- 20 works last week that I got paid for. I'm a firm
- 21 believer in copyright law. But I'm not a believer in
- 22 prior restraint of how you can use your tools.

184 1 Jay. 2 MR. SULZBERGER: Thanks. Okay. I'm -- of 3 Yeah. course. I guess what I want to say is going to be very much along the lines of what Aaron and Brett 5 said. And I want to emphasize two things. There's a 6 broad general misunderstanding of what's at issue here 8 in the newspapers, and certainly I think it is mainly a misunderstanding on the part of the people against 10 such exemptions. It isn't about copyright -- as both Brett and Aaron said, it's not about copyright. 11 It's 12 about the issue of the right of ownership of a 13 computer. 14 Now, Bunnie Huang wrote two comments. Bunnie 15 Huang is a hot shot. He maybe the most distinguished 16 hardware cracker. He's also a designer of hardware, 17 which is cryptographically protected against people 18 who don't have the right of access to devices. He 19 submitted one comment in his own person. 20 admitted a second one and he asked people to sign it. 21 25,000 people signed his comment which was in favor of these exemptions. He certainly mentioned exemption 4, 22

- 1 I think -- 4 and 5 -- I've forgotten even which. I
- 2 also agree very much that, as both of our side just
- 3 said before me, both people -- yeah, look, this is a
- 4 big heavy computer with a big screen, because my eyes
- 5 are going and because I like to have a lot of storage
- 6 and to have it be actually able to compute sometimes.
- 7 But it's the same thing -- modulo (phonetic), the
- 8 gross human interface and how much it weighs -- as
- 9 that thing. And -- maybe that thing is a little
- 10 weaker in some directions, but, you know, by two years
- 11 from now it won't be.
- 12 Let me just -- what I want to draw attention
- 13 to is -- now, this is speculative, but -- and it might
- 14 be felt to be out of place. There's an implicit --
- 15 the arguments of the other side, there's all sorts of
- 16 implicit theories about how they won't be able to make
- 17 any money anymore if these exemptions are granted.
- Let me say, by the way, that I think granting
- 19 the exemptions may result in a certain number of
- 20 people using their computers and their connection to
- 21 the net to commit massive copyright violations, just
- 22 as I think people still occasionally rob banks, and

- 1 they often use a car to get away. So -- let's see.
- 2 What can I say about that?
- 3 The issue just isn't one of copyright, and
- 4 let me tell you why it can't -- oh, I'm should have
- 5 quoted Bunnie Huang. Bunnie Huang said, if these
- 6 exemptions aren't granted, the present bright line of
- 7 ownership -- that's what he called it -- bright line
- 8 of ownership -- you walk into the store ten years ago,
- 9 if I bought a computer, I walked out of the store, it
- 10 was mine. Now, most people don't fool with their
- 11 computers. They don't get control of it. That's
- 12 partly the reason these exemptions aren't granted and
- 13 why the DMCA was passed.
- 14 If you run Windows, under copyright law,
- 15 you're not allowed to -- you're allowed to look at it
- 16 and disassemble the operating system or modify it;
- 17 you're not allowed to publicize -- I think that's a
- 18 mistake -- the results of your work. But be that as
- 19 it may, in practice, people don't actually, most of
- 20 them, hack on the lower levels of their Windows
- 21 operating systems. But some of us do. I don't do it
- 22 in Windows, but I do it in other systems. Sometimes I

- 1 touch the metal. Okay? I don't do it often. It's
- 2 not my job. But I've modified the kernel and run a
- 3 modified kernel.
- 4 The right of ownership is not clear in
- 5 people's minds because, in practice, they don't
- 6 exercise their rights in that direction, just as most
- 7 people don't take apart their car engine and rebore
- 8 the cylinders. But they own a car. I think it's
- 9 still true that we have the right in America, because
- 10 it's a right of property and a very important one, we
- 11 get to rebore the cylinders.
- Now, that doesn't mean that we get to drive
- 13 over the speed limit or get to run over people or get
- 14 to make too much noise. I'm all in favor of those
- 15 things. I'm all in favor of, actually, much stricter
- 16 enforcement of many of those laws, and greater limits.
- 17 But something in my house that I bought that
- 18 once upon a time the analogous thing, the ancestor of
- 19 it was a general purpose computer which I control, the
- 20 idea that to prevent speculative -- in my case, I
- 21 would never, ever commit a copyright violation. I've
- 22 never downloaded a popular song, neither one that I

- 1 paid for -- hopefully some of the money gets to the
- 2 artist, although that's doubtful in practice as we
- 3 know -- nor one that people have made available; the
- 4 people making available have probably committed a
- 5 copyright violation. And I've never done it. Why?
- 6 I'm not interested in those popular songs.
- 7 But I have downloaded large copyrighted
- 8 works, and I download them often. Now, this is
- 9 another thing. If you don't grant the exemption, a
- 10 lot of people's rights, which are right next to
- 11 copyright, will be severely impaired.
- 12 Last time in the demonstration -- I'm not
- 13 going to do it; it would take me a moment to pull it
- 14 out -- I have a little so-called USB memory stick, and
- 15 last time I stuck it in a different computer and it
- 16 booted the operating system. You couldn't see it. If
- 17 this exemption isn't granted, Microsoft has formally
- 18 declared they will do their best to stop that from
- 19 happening on any computer with an ARM chip that they
- 20 have a deal -- and they're going to get a deal with
- 21 almost all of the manufacturers. That will never
- 22 happen. In other words, I have a copyrighted work,

- 1 which is worth something. I may not have paid for it,
- 2 because the guy freely licensed it. Other ones
- 3 similar to it, you pay.
- 4 This thing -- does it contain an OS? This
- 5 little thing contains a copyrighted very good
- 6 operating system, a variant of which, by the way,
- 7 unless you've modified the internals of -- you're
- 8 running a variant of this operating system which is
- 9 free. The upper layers are under restrictive
- 10 copyright license, and Apple claims it will be very
- 11 annoyed and make a lot of noise. Apple, by the way,
- 12 is strongly -- and correct me if I'm wrong. Apple
- 13 strongly is against all these exemptions. I think I
- 14 spoke to an Apple representative earlier.
- But Apple has been very kind. People
- 16 violate -- they violate on a massive scale today the
- 17 anti-circumvention, the prohibition on circumvention
- 18 of -- I've forgotten the full technical name, but the
- 19 DRM stuff. Apple makes no attempt to actually lock
- 20 down their devices, no serious attempt; it's usually
- 21 within 24 hours. I've heard there's even a website
- 22 you can go to -- the most recent iPads and iPhones.

- 1 And you go to the website using your iPad and you
- 2 press a big red button and, after a couple of minutes,
- 3 if your connection to the net is good, it says,
- 4 Congratulations, Root, and you've got Root on the
- 5 device. That's to say you own it.
- 6 And when we say that we don't own the iPad
- 7 until you get Root, let's be very clear on this.
- 8 Kindle -- and as if it's our propaganda team -- maybe
- 9 they did -- Kindle some years ago got confused about
- 10 the copyright status of the book 1984 by George
- 11 Orwell. And so people who bought it from the Kindle
- 12 store for probably a dollar -- it may even have been
- 13 one of the freebies -- they went into people's
- 14 Kindles -- this is very hard to believe because, of
- 15 course, there are laws in the United States against
- 16 somebody invading your computer and destroying some of
- 17 your files. You could go to jail if you're convicted
- 18 for that.
- 19 They went in to the Kindle of I don't know
- 20 how many thousand people, and they destroyed that
- 21 file. Later on they said that they got confused about
- 22 the copyright status. But what it shows is what

- 1 Amazon thinks, and Amazon thinks, correctly, that they
- 2 own every Kindle until it's been jailbroken.
- 3 Jailbroken, practically, they don't anymore.
- 4 As for Android, Google owns every one that
- 5 walks out of the store, but Google says in the
- 6 Chromebooks they wouldn't cooperate with any vendor
- 7 unless they make it possible, by flicking -- actually,
- 8 you have to flick two switches in a row, and I've
- 9 actually a Samsung Chromebook; there are two switches.
- 10 Once you flick them, you own it.
- 11 Now, certain services will not be available
- 12 to you, right, once you've put on your own operating
- 13 system. We have zero problem with that. That, of
- 14 course -- they're offering a service that happens to
- 15 be over the net. They don't like the looks of the
- 16 machine in the other end. I think that's pretty much
- 17 within their -- I think it's wholly within their
- 18 rights to say, nope, you don't get it, sorry, you
- 19 don't get it.
- 20 And the issue is not one of some small
- 21 hampering or convenience. The issue is something that
- 22 lies at the foundations of -- at least what the

- 1 history books used to say, and I think some of our
- 2 propaganda still says -- it's that every American, if
- 3 they've got the money, can buy something and use it as
- 4 long as they don't injure other people or violate
- 5 certain rules, like the FCC has rules in this thing.
- 6 Right? I don't recommend changing the hardware so
- 7 that I can, say, suppress all your telephones in the
- 8 room. I'm utterly against that because that's an
- 9 interference with other people's stuff. But --
- 10 MR. CARSON: Your time is up. I'll give --
- 11 MR. SULZBERGER: I'm very worry.
- 12 MR. CARSON: -- you two minutes to wrap up.
- 13 MR. SULZBERGER: The issue isn't a small
- 14 issue. It's not an issue of convenience. And the
- 15 people have spoken, by the way. People want control
- 16 over their devices. Thanks.
- 17 MR. CARSON: Thank you.
- 18 Jesse.
- 19 MR. FEDER: Thank you, David. I'm Jesse
- 20 Feder, director of international trade and
- 21 intellectual property for the Business Software
- 22 Alliance, and I'm here to speak in opposition to

- 1 classes 5 and 4.
- 2 I'm going to start off with a couple of
- 3 statistics, and then I will spare you statistics for
- 4 the remainder of my statement. There are over a
- 5 hundred million smartphone users in the U.S. today and
- 6 there are tens of millions of tablet users. Well over
- 7 a million apps are available from thousands of
- 8 individual software developers for the four top mobile
- 9 software platforms, Android, iOS, RIM and Windows
- 10 phone. And literally tens of billions of apps have
- 11 been downloaded.
- 12 Fierce competition exists among the major
- 13 software platforms and the multitude of apps that run
- 14 on them. The range of choices available to consumers
- 15 is truly mind-boggling. It's against this background
- 16 of a dynamic, competitive marketplace that the office
- 17 must decide whether to grant an exemption under
- 18 section 1201, an exemption that's being sought in the
- 19 name of consumer choice and competition.
- Our view is that granting an exemption would
- 21 be justified by neither the statute nor public policy.
- 22 In point of fact, the TPMs at issue play a key role in

- 1 motivating investment into these platforms and the
- 2 apps that run on them.
- I'll begin by discussing class 5, since many
- 4 of the arguments against that class also apply to the
- 5 much broader proposal for class 4. I'll then discuss
- 6 the additional reasons why we oppose the proposed
- 7 class 4 exemption.
- 8 The proponents of class 5 have not met their
- 9 burden of demonstrating a substantial adverse impact
- 10 on their ability to make non-infringing uses of a
- 11 particular class of copyrighted works. The class 5
- 12 proponents allege that there is a substantial class of
- 13 consumers who are harmed by their inability to install
- 14 lawful, unapproved apps on the mobile device of their
- 15 choice.
- To be certain, there are some users who
- 17 install or wish to install only legitimate apps that
- 18 are not available through the curated distribution
- 19 model employed by some platforms. But there is no
- 20 evidence that this is a significant group. For
- 21 example, EFF has proffered statistics about the number
- 22 of phones that have been jailbroken and the number of

- 1 installations of Cydia. But these statistics in and
- 2 of themselves do not establish that a large number of
- 3 users are jailbreaking their devices solely to install
- 4 legitimate apps.
- 5 Jailbreaking is a precondition for installing
- 6 pirated software, and Cydia distributes pirated apps
- 7 as well as legitimate ones. So many of the users
- 8 counted in these statistics are engaged in piracy.
- 9 Even if the proponents could demonstrate a
- 10 substantial adverse impact, they have failed to show
- 11 that the harm they allege is not outweighed by the
- 12 positive effects of the use of TPMs on the
- 13 availability of copyrighted works.
- 14 Access controls are central to a distribution
- 15 system that benefits consumers, independent app
- 16 developers and third-party content creators as well as
- 17 developers of mobile operating systems. They're at
- 18 the heart of a curated model of software distribution
- 19 that gives consumers a level of assurance regarding
- 20 quality and security and gives app developers and
- 21 content creators a level of assurance regarding
- 22 anti-piracy.

- 1 The end result is a staggering number of apps
- 2 that have been developed by thousands of independent
- 3 developers and distributed to the public. Consumers
- 4 have a vast array of choices, including hundreds of
- 5 thousands of apps that are available for free. They
- 6 also have the option of foregoing the curated model by
- 7 choosing a platform, like Android or Linux, that is
- 8 much more open.
- 9 TPMs on mobile devices have led to widespread
- 10 availability of works. In short, they are precisely
- 11 the kind of use-facilitating technological protection
- 12 measures that Congress sought to promote in enacting
- 13 section 1201.
- 14 The flip side of that proposition is that
- 15 permitting the disabling of these locks decreases the
- 16 value of copyrighted works by undermining the value
- 17 proposition that the platform creator offers to users
- 18 and independent developers. A big factor in what
- 19 makes a platform attractive to consumers is the
- 20 availability and quality of applications that run on
- 21 the platform. If a platform becomes less attractive
- 22 to application developers or if customers lose

- 1 confidence in the quality or security of the apps
- 2 available to run on it, they will be less likely to
- 3 choose it, thus reducing the value of the platform and
- 4 the software that runs it.
- 5 For their part, app developers who experience
- 6 high levels of piracy on a particular platform see the
- 7 value of their works decline as they lose the ability
- 8 to monetize them. There is plenty of discussion in
- 9 the developer community about how higher rates of
- 10 piracy on the Android platform, for example, is
- 11 driving them to alternatives like the iPhone.
- 12 Moreover, unauthorized reproduction and
- 13 modification of an operating system for the purpose of
- 14 running non-approved applications is not a
- 15 non-infringing use because it is not a fair use.
- 16 In our view, the fair use argument for
- 17 jailbreaking relies on an inappropriate extension of
- 18 two Ninth Circuit cases on reverse engineering, Sega
- 19 versus Accolade and Sony v. Connectix.
- 20 Sega and Sony are cases involving
- 21 intermediate copying in the development of an end
- 22 product that is not substantially similar to the

- 1 original computer program. When the owner of a device
- 2 jailbreaks it, he creates and uses a substantially
- 3 similar -- in fact, substantially identical -- version
- 4 of the operating system.
- 5 In the reverse engineering cases, the use of
- 6 the original program was viewed as indirect. Here,
- 7 we're talking about a direct and more or less
- 8 continuous use of the modified version of the program
- 9 for the same purposes as the original.
- 10 Jailbreaking is not transformative, as the
- 11 Supreme Court used the term in Acuff-Rose. It does
- 12 not add something new with further purpose or
- 13 different character. The hacked operating system is
- 14 of the same character and serves the same purpose as
- 15 the original operating system. Very little new or
- 16 additional expression is added, only what is necessary
- 17 to break the TPM.
- 18 Finally, I'd like to take a few moments to
- 19 clarify our view on section 1201(f) before I discuss
- 20 proposed class 4. In section 1201(f), Congress
- 21 created a narrow exception for non-infringing reverse
- 22 engineering that contains a number of important

- 1 safeguards. Jailbreaking would not qualify.
- 2 First, the exception is for development of
- 3 interoperable software. Jailbreaking by consumers is
- 4 not for the purpose of developing software.
- 5 Second, since the customer who jailbreaks a
- 6 mobile device generally does so in violation of the
- 7 license terms for the operating system, there is no
- 8 longer a lawful right to use the software as required
- 9 by the statute.
- 10 Third, the information needed to make
- 11 applications interoperable with a mobile device is
- 12 readily available to app developers. Platform
- 13 developers make software development kits available to
- 14 app developers to help and encourage them to develop
- 15 apps to run on their platforms.
- 16 We do believe, however, that section 1201(f)
- 17 is relevant in this proceeding as an expression of
- 18 congressional intent. Congress has stated that, while
- 19 achieving interoperability is a valid basis for an
- 20 exception in some circumstances, those circumstances
- 21 are narrow.
- 22 The fact that Congress has created a specific

- 1 exception under section 1201(f) and that the proposed
- 2 class would not qualify for it should weigh against
- 3 granting an exception under section 1201(a)(1).
- 4 Regarding proposed class 4, it is far broader
- 5 than proposed class 5, covering all personal computing
- 6 devices. We believe that the reasons just stated for
- 7 rejecting the narrower class 5 apply here as well.
- In addition, we note that the argument for
- 9 exempting personal computers relies on speculation
- 10 about how a specification, UEFI 2.3.1, will be
- 11 implemented sometime in the future. There is no
- 12 current impairment of non-infringing uses that the
- 13 proponents of class 4 can point to, and their
- 14 speculation is insufficient to establish a likelihood
- 15 that there will be an impairment of non-infringing
- 16 uses in the next three years.
- 17 As the House managers report stated, the
- 18 evidence of the likelihood of future adverse impact
- 19 during the time period has to be highly specific,
- 20 strong and persuasive, and that is simply not the case
- 21 here. The proponents have simply not met their
- 22 burden.

I would just like to respond to a couple of

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- things that were said before I turn to my colleague here. One is that there's a great deal of talk of right of ownership. I think, to the extent that that's at all relevant in this proceeding -- and I'm really not at all certain that it is -- I think we have to bear in mind that the kinds of transactions that we're talking about here are transactions that involve sale of hardware, but also licensing of 10 software and other content and other ongoing 11 relationships, both between the consumer and the 12 software developer that is providing updates for the software that's embedded in the device, and also with 13 the carrier, if this is a device that works on a 14 telecommunications network. 15 16 So we're talking about something far more
- 10 20 %0 10 0d1m1mg db0d0 b0m0om1mg 1d1 mo10
- 17 complex than the sale of a book that you put on your
- 18 shelf. We're talking about ongoing contractual
- 19 relationships here that govern much of what the
- 20 proponents of the exemptions would like to argue are
- 21 simply inherent in the right of ownership of the
- 22 device that you buy.

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And, with that, let me turn to --1 2 MR. GOLANT: Steve, before you go, I just wanted to let people put on notice -- because I have questions about what you just said, so just think about -- it's about the UEFI, because I'm very 5 6 interested in that, what Windows 8 does. So rather than ask questions when they're done, just think about 7 8 that as you go forward. 9 MR. METALITZ: Thank you. I'm Steve Metalitz, here representing seven national groups of 10 11 copyright owners and creators. I'll be very brief 12 since I did have the opportunity to speak on this at 13 the hearing on May 17th with regard to proposal number 5. The only thing I'd like to say about that 14 15 is that on May 31st -- in the hearing on May 17th it 16 was pointed out that much of the information we had 17 provided about the relationship between hacking of the 18 smartphone operating systems and firmware and piracy 19 was rather outdated, and so we were asked if we had 20 any more up-to-date information. We do. 21 submitted it to you. We've copied our -- the 22 proponents, and I've got a couple of copies here, if

- 1 people are interested.
- 2 But, basically, I think this material makes a
- 3 couple of points that Jesse has already summarized.
- 4 One is that there is a link between jailbreaking, as
- 5 it's called, and pirate applications. Indeed, the
- 6 leading app store that -- for providing jailbreaking
- 7 tools also provides many pirate applications, and I
- 8 think that's documented in these materials.
- 9 I think the other point that's important here
- 10 is -- and, again, Jesse has referred to this -- is
- 11 that while there certainly are competitive models
- 12 here, and you can compare the Apple model and the
- 13 Android model in terms of the degree to which
- 14 unrestricted applications are available in an
- 15 unrestricted manner in the latter more than in the
- 16 former -- and the marketplace obviously is going to
- 17 decide which of those models will prevail or whether
- 18 they will continue to co-exist as they do now.
- 19 But one difference between those two models,
- 20 which is spelled out in many of these articles, is
- 21 that the Apple model does encourage and support
- 22 greater development and dissemination of new apps.

- 1 There's far more apps available on the Apple model
- 2 than in the Android model even though Android is far
- 3 more prevalent in the marketplace. So the potential
- 4 market is larger, but developers are not as eager to
- 5 exploit that because that Android marketplace is
- 6 characterized by very high levels of piracy.
- 7 So, again, this is in these articles that
- 8 talk about if app piracy worsens, developers will
- 9 return to iOS or even switch to Windows phone 7. Both
- 10 are more secure than Android.
- So in terms of the dichotomy that the office
- 12 drew in its 2010 recommendation between business
- 13 interests and copyright interests, we've already
- 14 indicated that we hope the office will revisit that.
- 15 We don't see the basis for that in the statute.
- 16 But, in fact, here is a case where it's clear
- 17 that the interests that underlie the model, the Apple
- 18 model, for example, in contrast to the Android model,
- 19 include promotion of the development and dissemination
- 20 of copyrighted work. So the business interest is a
- 21 copyright interest, and one that is directly relevant
- 22 to one of the criteria Congress asked you to apply

- 1 which is the effect on the availability of copyrighted
- 2 works.
- 3 I'll just say, with regard to number 4, and
- 4 I'm sure we'll have some questions about it, I think
- 5 in some sense -- you know, we heard from the previous
- 6 witnesses that you can't really draw a sharp line
- 7 between a tablet and a computer, a personal computer,
- 8 between 4 and 5. I think part of this is perhaps the
- 9 fallout of the failure of the proponents of
- 10 exemption 5 to provide any definition of a tablet, and
- 11 I think it would be a very unwise move to recognize
- 12 any exemption in that area unless there's a clear
- 13 definition so that people will be able to know what
- 14 the exemption covers and what it doesn't cover.
- I think, again, if you look at the
- 16 marketplace as it exists now, it is a highly
- 17 competitive marketplace, as Jesse indicated. And if
- 18 you are looking for a place where you have an
- 19 unrestricted ability to install any application you
- 20 want, that option is clearly available in the personal
- 21 computer marketplace. Any -- there's some speculation
- 22 that it might not be as available in the future, and

- 1 that's the word that the proponents use; it really
- 2 doesn't amount to any more than speculation and, as
- 3 Jesse has indicated, that falls far short of the
- 4 standard you've been asked to apply.
- 5 And even in this -- you know, the issue of
- 6 installing a new operating system, I'm not -- I'm not
- 7 going to take it as a given that that actually
- 8 involves circumvention of access controls on the
- 9 existing operating system, but even if it does,
- 10 commodity hardware in the PC space is available. I
- 11 think in the Software Freedom Law Center submission
- 12 they say, well, it's not available in the mobile phone
- 13 space, but it is certainly available in the PC space.
- So in other words, you have -- users have
- 15 access, if they want, to a computer on which they can
- 16 install their own operating system, so the options are
- 17 available; circumvention isn't required to do that,
- 18 and there's really -- the proponents haven't been
- 19 able, I think, to carry the burden of showing that
- 20 exemption is -- meets the statutory standards with
- 21 regard to number 4.
- So I will stop there, and I'll be glad to

- 1 answer any questions that you might have.
- 2 MR. CARSON: Thank you.
- 3 Marcia.
- 4 MS. HOFMANN: Thank you for having me back
- 5 again today. I am excited to be back again, speaking
- 6 with you about these issues, because I think they're
- 7 very important. I'm Marcia Hoffman. I'm a senior
- 8 staff attorney with the electric Electronic Frontier
- 9 Foundation. My organization is the proponent for
- 10 proposed class 5. I have four points in response to
- 11 Mr. Feder.
- 12 First of all, consumers will suffer an
- 13 adverse impact if exemption 5 isn't granted. For
- 14 three years now, people had been benefiting from the
- 15 2010 exemption that was granted that allowed the
- 16 jailbreaking of smartphones and, since then, tablets
- 17 and other mobile devices have been introduced to the
- 18 market.
- 19 For the past three years, there's been
- 20 tremendous growth, not only in the market, as
- 21 everybody agrees, but in the practice of jailbreaking
- 22 and in the development of independently designed but

- 1 unapproved third-party applications for use on those
- 2 devices.
- 3 If this exemption isn't granted, then the
- 4 people who have been making legitimate lawful uses of
- 5 this type of software on their iPhones for the past
- 6 three years are all going to become criminals. Their
- 7 behavior is going to become illegal. And people who
- 8 are doing similar things or would like to do similar
- 9 things with tablets are going to be chilled in their
- 10 ability to do so. And there's simply no reason for
- 11 that.
- And I think it's worth noting, by the way,
- 13 that the anti-circumvention provisions of the DMCA do
- 14 carry criminal penalties. I mean, this is not just a
- 15 situation where people need to be worried about being
- 16 sued for jailbreaking their phones so that they can,
- 17 you know, configure a custom interface that they like
- 18 better than the one that Apple provided, but they
- 19 actually have to think about the fact that there are
- 20 criminal penalty and, in theory, they could go to
- 21 jail. Would anybody ever prosecute them? Probably
- 22 not. But it's something that they have to think

- 1 about. And that kind of a legal cloud does not
- 2 encourage innovation, and it doesn't encourage
- 3 consumer choice, and it doesn't encourage competition.
- 4 So I encourage you to think about that.
- 5 Number two, exemption 5 is a narrowly crafted
- 6 exemption that is not going to legalize piracy. I
- 7 want to be incredibly clear about this, particularly
- 8 in light of the article submitted by Mr. Metalitz on
- 9 Friday and one submitted by Mr. Feder yesterday.
- 10 These are all articles that express concern about
- 11 piracy. I think that they are completely -- they have
- 12 nothing to do with our exemption request.
- 13 Our exemption request is about making lawful
- 14 uses of third-party software, and piracy simply
- 15 doesn't fit into that equation.
- 16 As the evidence submitted by Mr. Metalitz in
- 17 his opening comments showed, piracy was an issue back
- 18 before the 2010 exemption was granted, and we can see
- 19 that it is still an issue today. And I think that
- 20 that's, you know, something that nobody disputes.
- 21 If this exemption is granted, what it will do
- 22 is clear the way for people to make lawful fair uses

- 1 of software on their devices. It won't clear the way
- 2 for piracy. It won't remove any existing legal
- 3 remedies that copyright holders have when users are
- 4 infringing content or pirating apps or installing
- 5 pirated apps. All it will do is clear the way for
- 6 lawful uses, and that's it.
- 7 And so, you know, to the extent that piracy
- 8 may continue, you know, basically if this exemption
- 9 isn't granted, then all jailbreaking is going to be
- 10 illegal. But if it is granted, then people will
- 11 actually be able to make lawful uses. So I think that
- 12 that is important to recognize.
- 13 Third, we heard some testimony about the vast
- 14 array of apps that are available. I think that that
- 15 would be a much smaller array of apps if it weren't
- 16 for the fact that developers are able to develop for
- 17 platforms like the iPhone, if they can't get their
- 18 apps approved by Apple, and distribute those
- 19 applications through other alternative markets. And
- 20 so I think that jailbreaking does nothing but
- 21 encourage development and encourage competition and
- 22 encourage innovation.

- 1 And, you know, if developers decide that they
- 2 don't like developing for the Android platform, for
- 3 instance, because piracy is a big issue there or for
- 4 whatever other reason, they can choose to develop for
- 5 some other platform, and jailbreaking opens the way
- 6 for them to be able to do that.
- Just briefly, 1201(f), I mean, I think we
- 8 talked about this at length at the last hearing. It
- 9 is true that Congress granted a reverse engineering
- 10 exception at 1201. I don't think Congress could have
- 11 foreseen what we're looking at today, and that's what
- 12 this rulemaking process exists for, so that you can
- 13 actually grant exemptions when Congress perhaps
- 14 couldn't have foreseen what was going on.
- Now, I would appreciate the opportunity to
- 16 respond to the articles submitted by Mr. Metalitz and
- 17 Mr. Feder in writing, but I, you know, just want to
- 18 say, really, I think that they are beside the point
- 19 because they have to do with piracy. And I just want
- 20 to reiterate, this proposed exemption has nothing to
- 21 do with piracy. It wouldn't legitimize piracy. It
- 22 wouldn't legalize piracy. It would legalize lawful

- 1 fair uses, and that's it. Thank you very much.
- 2 Oh, one more thing. I know you had questions
- 3 for me at the last hearing, and one of them was, as
- 4 Mr. Metalitz said, what is a tablet? And that is not
- 5 something that responds to Mr. Feder, so I'm not going
- 6 to address that now. But if you have any questions
- 7 that you would like to bring up with me here that I
- 8 can answer, I would be happy to address those things.
- 9 I'm prepared to do that. Thank you.
- 10 MR. CARSON: Before we go to questions, do
- 11 any of the other proponents have anything to say in
- 12 direct response to what was said? And it really is in
- 13 direct response to what was said, not just something
- 14 else you want to say.
- MR. SULZBERGER: It's very direct. Mr. Feder
- 16 stated that the harm of keeping the law as it is
- 17 today, namely the anti-circumvention -- I don't know
- 18 its technical name is -- clause that the DMCA
- 19 enforced -- is -- you know, the harms are speculative.
- 20 No, they're not. As of last week, Microsoft has
- 21 attained (sic) to a lock now defended by the DMCA upon
- 22 most computers. So all Dell computers, all HP

- 1 computers, all Lenovo computers from this day forward
- 2 will not allow you to install a different operating
- 3 system.
- 4 Now, I think Mr. Metalitz pointed out that
- 5 there's a difference between diddling with iOS and
- 6 installing a different operating system. I want to
- 7 emphasize, I agree there's a difference. And the more
- 8 important issue is I think you should be able to
- 9 diddle with it. All right? But that's a small issue
- 10 for me.
- 11 The big issue is the absolute lock-out of
- 12 other operating systems on the ARM -- that is the
- 13 formal, strict, openly declared, repeatedly, position
- 14 of Microsoft. If they make a deal with a vendor, and
- 15 it's an ARM device, they're going to do their
- 16 darnedest, backed by the present law with criminal
- 17 penalties, to stop me, if I buy such a device -- I'm
- 18 sorry. I'll be slow. I didn't see that you were
- 19 using the wonderful multi-strike steno device.
- 20 If you buy an ARM device next year and a deal
- 21 has been made by Microsoft -- and I don't know if
- 22 Microsoft would take you to court. They're

- 1 intelligent about that. Unlike Sony -- Sony I think
- 2 has tried to start to induce courtroom proceedings
- 3 against Geohot, but I'm not sure -- it was resolved
- 4 before it was in court --
- 5 MS. HOFMANN: It was a civil case.
- 6 MR. SULZBERGER: It was a civil case, okay.
- 7 I stand corrected.
- 8 Okay. So it's not speculative. Because of
- 9 the long history of domination by Microsoft of major
- 10 sellers of home computers, they've been able now to
- 11 get to a position where it's not just that, you know,
- 12 when the stuff comes there, you can throw away the
- 13 thing and they'll never give you a refund -- although
- 14 that's in the law, they're required to, they won't do
- 15 it.
- 16 Now, when I go to install with that little
- 17 thing, the FreeBSD thing today on this machine, I put
- 18 it in, I boot it, a new operating system is running.
- 19 If I want to install it, there's an install script
- 20 maybe on that thing -- or I have to use another one;
- 21 it doesn't make a difference -- I can put whatever OS
- 22 I want on this machine. There's no electromechanical

- 1 crypto bar to it, and certainly no electromechanical
- 2 crypto bar backed by criminal penalties if I do it and
- 3 then publicize how to do it.
- 4 The issue is the right of private ownership
- 5 of computer hardware. It's nothing else.
- 6 And let me just say -- and this is more than
- 7 pro forma in my case -- I don't in any way approve of
- 8 people massively committing copyright violations
- 9 via -- I don't even know the names of these stupid
- 10 programs they use. It has nothing to do with it. The
- 11 issue is whether, in practice, given the present
- 12 business situation, whether next year I can buy this
- 13 machine and put an operating system of my choice on
- 14 it, which again, I repeat -- I'm not boasting; it's
- 15 just a fact -- of course I'm boasting. I never ever
- 16 violated anybody's copyrights, although I put a lot of
- 17 copyrighted material on here, several different
- 18 operating systems, all of them free. And the
- 19 competition -- I just want to close with one thing.
- 20 This is all in answer to the two things.
- 21 If, say, in 1985 -- and it could have
- 22 happened in 1985; we had the techniques -- the UEFI,

- 1 or Palladium or the TPM -- it has many names. We got
- 2 them to change the name in 2003 because we made it
- 3 stink in the nostrils of people who knew about
- 4 computers.
- 5 If that had been in force, then when Apple
- 6 was going bust in the '90s and trying to build an
- 7 operating system which they seemingly didn't have the
- 8 resources to do -- they had the resources; they didn't
- 9 have the intelligence to hire people who could build
- 10 an operating system. And they brought Steve Jobs
- 11 back. He said, I'll sell you my little operating
- 12 system. It's a free operating system. It's the one
- 13 that ran Next. It's, once again, a FreeBSD. It's a
- 14 complicated thing. The lower level is something
- 15 called Mock (phonetic). The top level is FreeBSD.
- 16 And I can run a free Apple system without all
- 17 the Apple stuff on top. Okay. If that isn't a
- 18 serious impairment of competition -- I'm sorry.
- 19 Please forgive me for going -- one more thing.
- 20 Competition in which arena? And cui bono?
- 21 The people who really benefit from this is not the end
- 22 user who likes to watch movies on their device. I

- 1 know that's their theory. And I might even say it's
- 2 partly true. But the people who really benefit, who
- 3 really rake in the dollars, it's Apple. And Microsoft
- 4 hopes it will be in that position. And Sony.
- 5 And so you have to ask yourself, what arena?
- 6 You have to be precise. I'll just add one more. The
- 7 precise thing is I won't be able to boot, I won't be
- 8 able to go into the store, spend 500 or 1,000 or
- 9 \$1500, get this nice laptop and then boot the
- 10 operating system, the only one that I run. I won't be
- 11 able to do it. It will cost me a lot more. It will
- 12 probably be available for a few more years. They'll
- 13 work to extinguish that. That's the issue. Not
- 14 copyright. Sorry. I went on too long. Thank you.
- MR. CARSON: I will give you an opportunity,
- 16 but I want to make sure I understand the point you
- 17 made about Microsoft. Is it that Microsoft, A, I
- 18 gather has made some deals with some equipment
- 19 manufacturers --
- MR. SULZBERGER: Yes.
- 21 MR. CARSON: -- so that's part of it.
- MR. SULZBERGER: Yes.

- 1 MR. CARSON: And as part of those deals, the
- 2 new Windows operating system will be installed on
- 3 their computers --
- 4 MR. SULZBERGER: Yeah.
- 5 MR. CARSON: -- with access controls that
- 6 prevent one from taking it off? Is that the notion?
- 7 Or am I missing something?
- 8 MR. SULZBERGER: I don't know. You may be
- 9 able to destroy it. I'm not sure. But you certainly
- 10 will not be able to install a new operating system.
- 11 This one has got a operating system that I
- 12 installed by making a -- I've forgotten if I made a CD
- 13 or a little thumb drive. It was a year and a half
- 14 ago.
- And the way it works is you have to go into
- 16 the BIOS. When it starts up, there's a little button
- 17 you press and you come to the BIOS, and it's somewhat
- 18 mysterious. And the last time I pointed out, when I
- 19 bought a different machine -- I brought a different
- 20 machine; I think I bought it the day before -- it had
- 21 a password on it.
- Now, if you don't put the password in on the

- 1 machine that I showed before, you're going to have a
- 2 hard time. You might be able to crack into it, but,
- 3 you know, that's not my interest. I bought a machine
- 4 for 200 bucks -- I think it was 220 or 200, but I've
- 5 forgotten -- and I wanted to run that day my own
- 6 operating system. I needed another machine for some
- 7 purpose.
- 8 So I called the guy up. He gave me the
- 9 password. I put it in. But it's the equivalent of
- 10 that password -- but it's a much better system. The
- 11 BIOS in that thing, if I didn't know the password, I
- 12 actually know how to get around it. It's not a big
- 13 deal. It would take me a day or so. Right? I'd have
- 14 to pull out a little battery. It's a stupid,
- 15 uninteresting thing. I can get around it.
- 16 But the new things are such that either you
- 17 have to go to Microsoft and beg them to sign the
- 18 so-called kernel of the operating system -- now, as a
- 19 matter of fact, in the past week, a distribution of a
- 20 new Linux called Fedora -- it's the so-called free
- 21 version of Red Hat -- they decided they'd pay \$99, not
- 22 directly to Microsoft, indirect payment, a one-time

- 1 fee, and they would sign a certain number of their
- 2 kernels, and then it would boot. Okay?
- In the future, any whole operating system
- 4 author -- and all operating systems are under
- 5 copyright -- just about all today. I think very few
- 6 are in the public domain. They're all huge
- 7 copyrighted works with literally hundreds of
- 8 thousands, at a minimum, man-hours of work by highly
- 9 skilled people. They're created. The ones I'm
- 10 interested in are freely leaned. Okay? So you don't
- 11 pay money. If you want to -- by the way, some of the
- 12 freely licensed ones you have to pay money for. It's
- 13 not an issue of money.
- But the licensing is such that I get to
- 15 freely modify them, and in some cases I can
- 16 redistribute binaries of the modified ones. In other
- 17 cases, when I redistribute the binaries, I'm required,
- 18 by the terms of the copyright license, to offer a copy
- 19 of the source. Okay. Let's leave that aside.
- 20 This is -- if this exemption number 4 is not
- 21 granted, it will almost surely end the -- I hesitate
- 22 to use the word "market" -- the distribution of

- 1 valuable copyrighted works. As I said, if in 1985 the
- 2 system had been put in, you might be running an Apple,
- 3 and they might be as rich as they are today. When it
- 4 came to it -- and I don't believe this number, but it
- 5 keeps on getting quoted, so I'll cut it in half. They
- 6 spent 500 million. The quote is 1 billion, and it's
- 7 repeatedly quoted by people who looked at their
- 8 numbers. I don't believe it. It's impossible. But
- 9 even 500 million is impossible. They spent
- 10 500 million and got nothing. They wanted to build a
- 11 so-called proprietary or source-secret operating
- 12 system. And I actually learned something about
- 13 privately -- thank you. I've come to the end of my
- 14 time, as I am reminded by Aaron.
- MR. WILLIAMSON: David, if I could have the
- 16 opportunity to make my response to their particular
- 17 points now --
- MR. CARSON: You can in a moment, but I just
- 19 want to follow up on what he said.
- MR. WILLIAMSON: Okay.
- 21 MR. CARSON: I'll get back to --
- MR. SULZBERGER: There wouldn't be any Apple,

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   at least in the form we know it today --
 2
            MR. CARSON: Okay.
            MR. SULZBERGER: -- if this had been in force
   in 1985. That's all.
            MR. CARSON: I'd like to get Jesse and/or
   Steve to react just factually to Jay's account of the
 6
   new deal Apple has made, apparently, with some
 8
   equipment manufacturers.
 9
            MR. SULZBERGER: Microsoft.
10
           MR. CARSON: I'm sorry.
11
          MR. SULZBERGER: Microsoft, not Apple.
12
           MR. CARSON: My apologies.
            MR. SULZBERGER: Apple doesn't do anything
13
   today --
14
15
            MR. CARSON: Sorry. I misspoke.
           MR. SULZBERGER: -- offensive with regard --
16
17
           MR. CARSON: Is it your --
18
            MR. SULZBERGER: -- to those machines.
19
            MR. CARSON: -- understanding that he has
20
   given an accurate account? And, if not, what's
21
   inaccurate about it?
22
            MR. SULZBERGER: One week old.
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223 MR. FEDER: I am going to have to get back to 1 you on the specifics because --3 MR. SULZBERGER: One week old. MR. FEDER: -- this is new information. 5 think that a couple of the key words that were spoken just a few moments ago was "I'm not sure" and "I don't 6 know." 8 I think exactly how this is going to play out 9 in the marketplace is a matter of pure speculation. 10 As far as I understand, this applies to a particular chip architecture but not to all chip architectures. 11 There is still the availability of white box PCs on 12 13 which you can install the operating system of your choice. So we're not talking about making all PCs 14 impervious to the installation of a new operating 15 16 system. 17 But on the specifics of the Microsoft announcement, I'm going to have to get back to you on 18 19 that. 20 MR. CARSON: And do you have any 21 understanding of the purpose of this deal -- of this 22 aspect of the deal that basically says you can't

- 1 install another OS?
- 2 MR. FEDER: I don't know. Again, this is
- 3 speculation on my part, but one of the common ways for
- 4 malware to infect a system is to alter the kernel.
- 5 And the more you harden that, the more you protect it,
- 6 the more secure the system it is.
- 7 MR. CARSON: Jay, you're nodding your head in
- 8 agreement or --
- 9 MR. SULZBERGER: Oh, absolutely.
- MR. CARSON: Okay.
- 11 MR. SULZBERGER: We have no problem with --
- 12 indeed, Linus Torvalds, who is the lead developer and
- 13 original author of the so-called Linux kernel, he
- 14 recently, on his blog spot, he said, you know, of
- 15 course we all love Palladium as long as we get to
- 16 install the keys that we want. That's the issue.
- 17 Who's got the password to the boot loader? That's the
- 18 only issue.
- 19 The issue is not UEFE/TPM/Palladium/secure
- 20 boot, whatever you want to call it, which by the way
- 21 is in basically most machines in the past five years.
- MR. FEDER: David, I think I could save us

- 1 some time.
- 2 MR. GOLANT: I'm sorry. I just want to
- 3 follow up, in reference to what we're all discussing,
- 4 I read a lot, and one of the articles I came by was
- 5 from Boing Boing on May 31st by Cory Doctorow which
- 6 says, Lockdown: Free/open OS maker makes -- pays
- 7 Microsoft ransom for the right to boot on users'
- 8 computers, which relates to everything you just said.
- 9 So --
- 10 MR. SULZBERGER: That's what it is.
- 11 MR. WILLIAMSON: -- in reference to your
- 12 response, please look at this as a starting point by
- 13 which to think about things.
- I'll give my understanding of the UEFI
- 15 situation as it stands now. I don't have specific
- 16 information about the deal that Jay is referring to,
- 17 but --
- 18 MR. SULZBERGER: One week.
- 19 MR. WILLIAMSON: -- in -- so previously, and
- 20 I believe this is why Steve and Jesse have referred to
- 21 our comments as speculation in our initial filing,
- 22 Microsoft had published -- before that time, Microsoft

- 1 had published a tentative policy regarding UEFI
- 2 essentially saying that UEFI secure boot, which is the
- 3 mechanism, essentially the technical protection
- 4 measure, by which you can lock down the operating
- 5 system on UEFI-enabled computers.
- 6 So Microsoft had published a draft
- 7 specification stating that Microsoft -- or
- 8 Windows-certified computers would have to implement
- 9 UEFI secure boot, which is the technical production
- 10 measure. At that time, they didn't mandate whether it
- 11 had to be -- you know, whether a circumvention should
- 12 be allowed to the user or anything like that. But we
- 13 said, this is a signal that these measures are moving
- 14 to the personal computing market.
- 15 Since our initial filing, Microsoft published
- 16 a new specification for Windows certification. That
- 17 specification divides personal computers into two
- 18 categories: Those that are based on the Intel
- 19 architecture and those that are based on the ARM
- 20 architecture.
- 21 For the Intel architecture, the specification
- 22 states that computers that implement -- or all

- 1 computers must implement UEFI and UEFI secure boot,
- 2 but the physically present user must be able to
- 3 install new operating system keys into the UEFI
- 4 firmware, thus allowing them to install the operating
- 5 system of their choice.
- 6 MR. CARSON: That's for the Intel?
- 7 MR. WILLIAMSON: That's for the Intel
- 8 architecture.
- 9 For ARM, the specification states that they
- 10 must implement UEFI secure boot. Secure boot must be
- 11 enabled and a physically present user must not be
- 12 allowed the install new keys or turn off secure boot,
- 13 meaning that only operating systems whose keys already
- 14 exist in that firmware at the time of purchase, or
- 15 later updated by Microsoft and its partners, will be
- 16 able to be installed on the computer.
- 17 MR. CARSON: Thanks.
- 18 Brett, you had wanted to speak.
- 19 MR. WYNKOOP: Yeah. My UEFI comments I'm
- 20 going to leave aside because Aaron stated them quite
- 21 properly. I will say that what the other side has
- 22 said about, well, all this talk of UEFI is pure

- 1 speculation, it hasn't come to be, it hasn't come to
- 2 be -- it is my belief -- and that's all it is, my
- 3 belief, my personal opinion -- that the reason the
- 4 UEFI stuff has not been written in stone by Microsoft
- 5 and the rest of the englobulators is because they are
- 6 intentionally waiting until after these hearings and
- 7 until after the ruling is made, because then they will
- 8 gain a significant business advantage if the American
- 9 citizen is enjoined from being able to make use of his
- 10 tools the way he wishes to.
- 11 The other side also said that the only reason
- 12 for jailbreaking one of these devices was for piracy.
- 13 Well, that's entirely wrong. There are people, such
- 14 as myself, that are fed up with our cell phone
- 15 carriers shoving crap down to our phones. My
- 16 particular phone has at least four applications on it
- 17 that did not come on it when I bought it, that I did
- 18 not install, that have been shoved down by Sprint in
- 19 the year and a half I've owned the phone.
- 20 And they're constantly, between them and
- 21 Google, shoving applications down to the phone in the
- 22 form of updates that I don't particularly want, thus

- 1 forcing me to continuously uninstall stuff when I
- 2 can't uninstall it -- but some things don't even show
- 3 up in the uninstaller that is available to the owner
- 4 of the device.
- 5 The lack of exemptions would definitely
- 6 stifle the free market, as Jay has pointed out, the
- 7 ability to boot the operating system of your choice on
- 8 any computing device. If you physically own that
- 9 hardware, you should be able to put whatever software
- 10 on it you want, that you have a legal right to use.
- And the way UEFI is spec'd to work, the way
- 12 many of the smaller, more mobile devices work today,
- 13 it is very difficult for the ordinary person to make
- 14 that choice even if they want to.
- When my father was still alive, he asked me
- 16 at one point to set him up a personal computer at
- 17 home. My father had been an electronic technician in
- 18 the Navy for 30 years. His job was mainly maintaining
- 19 computers. He thought he could maintain a computer.
- I gave him a Windows computer because my
- 21 mother insisted on it, because that's what the
- 22 neighbors had. I advised against it, but that's what

- 1 he got. After a few months, he said to me, well, this
- 2 is happening, that's happening; how do I fix this?
- B How do I fix that? Well, I'm sorry, Dad, you can't
- 4 get at the inside.
- 5 A few months later, I replaced it with a
- 6 completely different operating system, something
- 7 called FreeBSD. And my dad was in hog heaven until he
- 8 died because he could actually fix things when they
- 9 went wrong, he could tinker with things, he could
- 10 essentially be the backyard tinkerer that has brought
- 11 us so many innovations in this country.
- 12 Without these exemptions, you're getting rid
- 13 of the backyard tinkerer. Today's backyard tinkerer
- 14 tinkers with his computer as opposed to a
- 15 steam-powered machinery or pumps or internal
- 16 combustion engines, although -- albeit there are still
- 17 some people that tinker with those and try to come up
- 18 with improvements. But by and large the majority of
- 19 tinkerers, the majority of individual makers in this
- 20 country make things using what is essentially the
- 21 universal machine. This is the machine that I can
- 22 give instructions to to do anything today. That will

- 1 not be the case if these exemptions are not granted,
- 2 especially if the englobulators get things like UEFI
- 3 lock-in through.
- 4 MR. WILLIAMSON: May I have the opportunity
- 5 to finish responding to the specific points that they
- 6 made during their --
- 7 MR. CARSON: Sure.
- 8 MR. WILLIAMSON: Thank you. So Jesse made
- 9 the point that the operating system for mobile devices
- 10 is thriving, and I'd like to counter that point. I
- 11 think that it's better characterized essentially now
- 12 as a duopoly. We have roughly equal market share
- 13 between Android and iOS on smartphones, for example.
- 14 The remaining, say, 10 percent of the market is shared
- 15 by a rapidly declining RIM, who makes BlackBerry
- 16 devices, and the Windows phone whose future is
- 17 uncertain at this point.
- 18 RIM, who chopped I think some 400 jobs last
- 19 week, or last month, is, I think, most analysts would
- 20 say, not necessarily long for this world in at least
- 21 its present form. Palm is also a recent loss in
- 22 the -- in this market. So now we've gone from four

- 1 relatively strong players to perhaps two.
- 2 So the idea that competition is thriving here
- 3 I think is incorrect, and I think that Mozilla is sort
- 4 of one of the few potential players who has a real
- 5 credible shot at entering this market at this point.
- 6 But, as I said, they've been relying on the exemption
- 7 granted in 2010 in order to make an entry into the
- 8 market.
- 9 Both of the opponents also made the point
- 10 that alternative app stores encourage piracy, saying
- 11 that there are pirated apps in the Cydia app store.
- 12 That may be. I'm not sure. I don't have evidence for
- 13 that myself. But my understanding is that Cydia's
- 14 policy is against pirated apps, just as the iOS app
- 15 store's policy is against pirated apps.
- 16 I've had several clients, free software
- 17 developers, who have come to me with reports that
- 18 their software, GPL'd software, was being distributed
- 19 in the app store in violation of the new general
- 20 public license and, therefore, an infringement of
- 21 their copyright.
- 22 So piracy is not a problem that is unique to

- 1 jailbroken phones or to Cydia. It's a problem that
- 2 will always be with us, and no matter how strictly one
- 3 curates an app store, piracy can still be a problem.
- 4 I think that the difference in piracy that
- 5 you see on Android versus iOS is not necessarily due,
- 6 as the opponents have said, to the more open nature of
- 7 Android, to the side-loading of applications, but
- 8 rather to its rather lackadaisical approach to the
- 9 curation of apps.
- 10 If you have less review of the applications
- 11 that are going into the app store, then sort of by
- 12 definition you're going to miss more piracy, but that
- 13 has nothing to do with whether a user is able to
- 14 jailbreak a phone and install a new operating system.
- The statistics as to the success of the app
- 16 store I'm happy to hear because I think that it
- 17 vindicates the -- your decision in the 2009
- 18 proceedings to grant the exemption for smartphones.
- 19 The fact that applications have continued to grow
- 20 uninterrupted since that time, as I said in my initial
- 21 comments, I think demonstrates the wisdom of that
- 22 exemption.

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As I said regarding UEFI, at this point,

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- 2 there is -- it's not speculative what's going to happen with UEFI. Microsoft has definite policies, and we now have new devices, laptop computers that being produced on ARM, Windows-certified, that you'll 5 be unable to install alternative operating systems on 6 unless Microsoft has approved a key for that operating 7 8 system, usually in collaboration with a vendor. 9 And, of course, for my clients, it's not -it's not adequate that you be able to make a deal with 10 a particular licensing authority to get a key into 11 12 computers because -- for example, one of my clients, 13 Gentoo, a Linux-based operating system with hundreds of thousands of users is built from source every time, 14
- 16 image you apply a key to will be different from the

which means that the -- whatever -- you know, whatever

- 17 image that a later user will actually install on a
- 18 computer and, therefore, a key-based system
- 19 corresponding to a particular operating system image
- 20 could never work for an operating system like that.
- 21 And I -- you know, as my final comment at
- 22 this stage, I'd like to point out that the statutory

- 1 standard is not that circumvention be absolutely
- 2 necessary to make the use the fair use or the
- 3 non-infringing use at issue, but that users of
- 4 copyrighted works are adversely affected. And I think
- 5 that the opponents have repeatedly tried to elevate
- 6 the statutory standard so that, you know, if there is
- 7 any way that the market has provided any sort of
- 8 answer to a problem, that it's no longer a problem. I
- 9 don't think that's the case. I think that as long as
- 10 users have -- as long as we've demonstrated that users
- 11 are adversely affected by the prohibition, then I
- 12 think that you are well within your right to grant an
- 13 exemption.
- 14 MR. CARSON: Any responses to what was --
- 15 what's been said since you two last spoke?
- 16 MR. FEDER: Sure. Let me first start with
- 17 the standard. The language in the legislative history
- 18 is substantial adverse effect. So we're talking about
- 19 something more than an adverse effect that affects a
- 20 few people, you know, a few diehard people who want to
- 21 tinker with the guts of their computer. We're talking
- 22 about something that is significant in the context of

- 1 the marketplace that we're talking about. And we're
- 2 talking about a marketplace of millions and millions
- 3 of phones, millions and millions of other devices.
- 4 So I think the fact that marketplace
- 5 alternatives do exist -- we've demonstrated that they
- 6 exist -- really puts a heavy burden on the proponents
- 7 to establish that this is more than just an adverse
- 8 effect on a few people.
- 9 MR. GOLANT: Can I ask -- I'm sorry to
- 10 interrupt, but so what is the threshold, then, in
- 11 terms of, when do you get to that point when it
- 12 becomes an adverse effect? Is it a hundred thousand?
- 13 A million? 5 million? That seems to be an ongoing --
- 14 MR. FEDER: I think it's going to depend on
- 15 the marketplace you're talking about. In this
- 16 particular instance, we're talking about a marketplace
- 17 of hundreds of millions of devices. So I think you
- 18 have -- the -- the threshold is correspondingly
- 19 higher. I can't give you a precise number.
- I think the question of piracy is very
- 21 relevant. Jailbreaking enables the installation of
- 22 pirated apps. I don't think anybody here would

- 1 dispute that that is the case. Regardless of how you
- 2 have drawn the -- the class that's being proposed, on
- 3 day one, you may jailbreak a phone for the purposes
- 4 set forth in that class and it's a perfectly legal act
- 5 if it falls within the exception. On day two, the
- 6 phone is still jailbroken and it still enables the
- 7 installation of pirated apps, and on day three and
- 8 day four and so forth.
- 9 So we need to be cognizant of what the effect
- 10 is. Even if the intention is only to permit certain
- 11 kinds of installations on jailbroken phones, once you
- 12 throw the doors wide open, pirated stuff is going to
- 13 find its way onto these devices. We know that it
- 14 does.
- 15 MR. GOLANT: But isn't it the case that I
- 16 would have -- if I'm an honest citizen and I jailbroke
- 17 my phone, that doesn't necessarily mean that I'm going
- 18 to download pirated apps. For me at least there is a
- 19 disconnect. There is the possibility that it may
- 20 happen, but it doesn't mean I'm going to take action,
- 21 just like I can drive a car, I avoid everyone on the
- 22 road, I could hit that person on the curb, but I

- 1 don't. So isn't that the same -- don't you want to
- 2 trust the people who do this for those purposes?
- MR. FEDER: Again, you have to look at the
- 4 nature of the marketplace. And the fact is that a lot
- 5 of people are jailbreaking their phones in a belief
- 6 that it's a perfectly legal thing to do, and they're
- 7 doing it for the purpose, maybe initially -- maybe the
- 8 purpose develops later on, once they find they can
- 9 install pirated apps -- but they are installing
- 10 pirated apps on their phones.
- 11 There is a definite connection between --
- 12 definite causal connection between jailbreaking a
- 13 phone and the installation of pirated content on that
- 14 phone.
- 15 But -- and this is a key point, and Steve
- 16 alluded to it before -- the copyright interest doesn't
- 17 begin and end with piracy. There is more at stake
- 18 here. What we're talking about is, what is the
- 19 economic model to sustain creativity? And we no
- 20 longer live in a world where the sole or even
- 21 predominant model is sales of copies for a particular
- 22 price.

- In the case of these kinds of devices, we're
- 2 talking about business models -- that's not a dirty
- 3 word in this context. We're talking about business
- 4 models where there are different income streams
- 5 belonging to different people, including the copyright
- 6 owner of the operating system.
- 7 You don't sell -- as a general matter, you
- 8 don't sell copies, individual copies divorced of the
- 9 rest of this transaction of the operating system. But
- 10 that doesn't mean the operating system has no value
- 11 and it doesn't mean that this is being done as a
- 12 charitable endeavor. It's part of a business
- 13 endeavor. It's part of a business model that sustains
- 14 the creative process.
- And, you know, there was a lot of talk about
- 16 what's the distinction between, say, a Kindle and an
- 17 iPad, and I think there is a meaningful distinction to
- 18 be made there, but it's not a meaningful distinction
- 19 based on technology. It's a meaningful distinction
- 20 based on the underlying business model.
- 21 The Kindle is sold at a lower cost because of
- 22 another expected income stream, the sale of

- 1 copyrighted books, e-book, on the device. This is all
- 2 tied together. And if the purpose of jailbreaking a
- 3 device is to permit the -- essentially an end run
- 4 around this business model, what you're essentially
- 5 saying is that it is okay to acquire this work for
- 6 something other than the customary price and to
- 7 benefit from the use of this work for other than the
- 8 customary price.
- 9 MR. GOLANT: I mean, I respect what you said
- 10 in terms of business models and free enterprise, but
- 11 at the same time, I have concerns about user rights
- 12 and competition, and I think that -- would you agree
- 13 where me that we have to balance those -- copyright
- 14 interests, business interests, user interests and
- 15 competition -- all in this bundle as we go forward to
- 16 craft an exemption?
- 17 MR. FEDER: I think, for one thing, we're
- 18 looking at a truly competitive market in spite of some
- 19 of the allegations here. We have competition among
- 20 different platforms. I mean, Android was just a blip
- 21 when this process took place a couple of years ago,
- 22 and it has now emerged as the top -- the most widely

- 1 used mobile operating system.
- 2 What's going to be the case three years or
- 3 six years hence? It is a competitive marketplace.
- 4 And it's a hugely competitive marketplace among apps
- 5 that run on these devices. So I don't -- if
- 6 competition is a concern for you, and bearing in mind
- 7 there's a whole other body of law to deal with with
- 8 anti-competitive behavior --
- 9 MR. GOLANT: Right. Agreed.
- 10 MR. FEDER: -- which is not a part of this
- 11 process. There is competition. There is a lot of
- 12 competition.
- 13 MR. GOLANT: But doesn't the competition stop
- 14 once I buy my phone? In essence, I pick my phone as
- 15 an Android, but now it's mine to do what I want in
- 16 terms of what it runs -- what runs on it? I mean,
- 17 again, there are thousands of phones out there. I
- 18 like the Android operating system, but maybe I do not
- 19 want something crammed down into my phone and I can't
- 20 get rid of it. So shouldn't I have that right?
- 21 MR. METALITZ: You can't get rid of your
- 22 phone or you can't get rid of --

242 MR. GOLANT: No, can't get rid of --1 2 MR. METALITZ: -- the application? 3 MR. GOLANT: As we had heard from the witnesses here that Sprint sometimes -- I have 5 Sprint -- sometimes downloads things when you have an I can't get rid -- I don't know the basics 6 update. upon which to extract that particular thing that they 7 put in there that bothers me because maybe it's a new background or something. I don't have that 10 wherewithal, but some people may well do. Shouldn't I have that right to somehow correct what I believe to 11 be something I did not ask for? 12 13 MR. METALITZ: I think perhaps your -- your approach to competition is a little bit different than 15 what Jesse is referring to because people who don't 16 like how they're treated by a -- you know, by a 17 particular business can go to another business where 18 they're treated more to their liking. And this even 19 extends to the very tiny, tiny minority of people who 20 want to install a home-cooked operating system on 21 their computer. They have that ability. They will 22 have that ability.

- 1 And while I have no knowledge -- firsthand
- 2 knowledge about this Microsoft UEFI deal, if it's as
- 3 described by the proponents, they would still have
- 4 that ability. So I'm not sure how the burden of
- 5 proving that they need to circumvent in order to make
- 6 the use of a particular program that they want has
- 7 been met in that circumstance.
- 8 MR. SULZBERGER: May I -- I'll try to be very
- 9 brief. I agree with Jesse Feder and Steve Metalitz
- 10 fundamentally. And this is my point I've been trying
- 11 to make here for several of these hearings.
- 12 The other side's minimum demand is absolute
- 13 ownership of every personal computer on earth.
- 14 Because nothing else -- when they say business model,
- 15 what they mean is from boot until you close it off at
- 16 night after you've watched your movies -- because you
- 17 have a contract -- it's under the control of Apple or
- 18 Microsoft.
- I agree with what they said fundamentally.
- 20 And they're now -- I was hoping to be able to make
- 21 this argument. I wasn't able to make it. They're
- 22 claiming that the entire operating system must be

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- 1 considered to be a piece of DRM, which this law, the
- 2 DMCA, applies to, and you can't touch it. This is
- 3 crazy.
- 4 When the law was passed, the technical means
- 5 were some ridiculous little piece of software that
- 6 people would run Windows and then they'd get around
- 7 it. Right? Now the other side is saying they must be
- 8 granted a legal power to haul somebody into court
- 9 because they touched the operating system on a piece
- 10 of hardware they bought. That's what they just said.
- 11 I agree with them. That's what they're
- 12 claiming. And that's why exemption 4 should be
- 13 granted so when we buy a piece of hardware -- you're
- 14 going to have to outlaw other operating systems
- 15 because -- look for example, suppose somebody uses --
- 16 I can't bring the name of any actual operating system
- 17 in, so I'll invent a new operating system called
- 18 Infringo. It's freely licensed. Its sole purpose is
- 19 to go out on the net and infringe copyright.
- Now, obviously, that must be outlawed. Now
- 21 it is outlawed under today's copyright laws. Okay?
- 22 Certainly its use is outlawed to infringe.

- 1 They're claiming that they must be granted,
- 2 in effect -- and, in truth, deals will be made --
- 3 sorry. It's prior restraint. And -- I'm sorry. I've
- 4 been told to use that word by somebody who knows what
- 5 it means, who has actually gone to law school. Okay.
- 6 So -- okay. Maybe not. Maybe it's by a UNIX
- 7 engineer who has got a lot of copyrighted works under
- 8 his belt.
- 9 So the issue is now open. The other side
- 10 says the entire operating system, from the metal on
- 11 up, must be under their control; otherwise, you know,
- 12 people can use it to pirate stuff. Okay. That's
- 13 their argument.
- Our argument is I bought the hardware, and
- 15 you can't twist this section of the DMCA to stop me
- 16 from installing an operating system of my choice.
- 17 That's it.
- I would like to ask permission to send you, I
- 19 hope within the month, something on the exact issue of
- 20 UEFI. If Microsoft had stuck last week to what it
- 21 claimed, we'd have much less objections, but they
- 22 didn't. They said -- they always claimed that, once

- 1 you sit before it, you put on your own key. In
- 2 practice, not true, as we discovered last week, but
- 3 that's a separate issue. But -- I mean, it's related
- 4 to -- but, okay. That's it. They've made my
- 5 argument.
- 6 MR. CARSON: Jesse, did you want to respond?
- 7 MR. FEDER: Well, I just wanted to respond to
- 8 one thing that was said. We're not claiming that the
- 9 entire operating system is a DRM. We're saying that
- 10 the operating system is a copyrighted work and that
- 11 modification of the operating system in order to
- 12 eliminate the DRM is an infringement.
- I wanted to respond to one more point that --
- 14 I wanted to respond to one more point that Marcia made
- 15 which was a little troubling to me. It would seem to
- 16 be that -- and correct me if I'm mischaracterizing
- 17 this -- is that people have a reliance interest today
- 18 in the exemption that was granted in the 2009
- 19 rulemaking, and given that the whole structure of this
- 20 process is a de novo review every three years, that
- 21 simply can't be right. I mean, that cannot be a
- 22 cognizable harm that you look to, or one would never

- 1 be able to roll back an exemption once it is granted.
- 2 So I would strenuously object to going down that
- 3 route.
- 4 MR. CARSON: Marcia.
- 5 MS. HOFMANN: I would like to respond to that
- 6 and then also a point that Mr. Feder made earlier. I
- 7 think that if we can't take that into consideration at
- 8 all, then, you know, that would mean that the law
- 9 would be completely chaotic. I mean, if this were a
- 10 situation where the Copyright Office couldn't consider
- 11 at all whether or not it has granted an exemption in
- 12 the past and, you know, everything were completely
- 13 de novo in every way, shape and form moving forward, I
- 14 think we'd be in a situation where people would be in
- 15 constant confusion about the state of the law, they
- 16 could never rely on the legal protections they think
- 17 that they have.
- 18 And, you know, I realize the standard of
- 19 review here is de novo, but I think that, as a
- 20 practical matter, it is within the Copyright Office's
- 21 discretion, and I think it makes sense, to consider
- 22 whether or not there has been this legal protection

- 1 for the three years prior, or even before that.
- 2 And if there, you know, are good reasons not
- 3 to continue granting the exemption, I think that, of
- 4 course, that's worth taking into account as well When
- 5 the Copyright Office is considering whether or not to
- 6 renew an exemption.
- But, I mean, the fact that, you know, people
- 8 for three years now have been jailbreaking their
- 9 phones and that that might suddenly become a
- 10 completely illegal criminal act and the effect that
- 11 will have on consumers is worth taking into
- 12 consideration. It may not be dispositive, but it's a
- 13 factor that is worth thinking about at the very least.
- MR. CARSON: The first time you made that
- 15 point, I wasn't certain whether you were saying what
- 16 I'm about to say, but I just want to make sure.
- 17 I got the impression that you were saying
- 18 that if we let the exemption expire at the end of this
- 19 current term and that we don't issue a similar new
- 20 exemption, those folks who have already jailbroken
- 21 their phones will suddenly be in violation of
- 22 section 1201. Was that your point?

249 MS. HOFMANN: No, I think moving forward they 1 2 will be. MR. CARSON: If they continue to jailbreak in the future? MS. HOFFMAN: Right. Yes. Exactly. 5 6 I mean, with respect to phones -- I mean, my thinking about it is that people who have jailbroken 7 their phones during the current exemption period have done so lawfully. But if the exemption isn't renewed, then moving forward, people who continue to do that, 10 11 or people who do it for the first time, would be in violation of the law. 12 And as for tablets, there's never been an 13 exemption. So people who do it now, in theory, are in 15 violation of 1201 and, moving forward, they would continue to be in violation of 1201. 16 17 MR. CARSON: And, of course, we've had classes of work expire in the past and we're still all 19 here. 20 MS. HOFFMAN: Yes, it's true. The world 21 hasn't ended. I recognize that. But I do think this

would affect millions of consumers. And I think

- 1 there's plenty of evidence in the record to show that
- 2 a lot of people jailbreak devices, or root devices, if
- 3 we're talking about Android. And we're not talking
- 4 about five people or 50 people. As I mentioned during
- 5 the last hearing, when the jailbreaking tool Absinthe
- 6 was released in January, over a million devices
- 7 downloaded it over a weekend.
- 8 MR. CARSON: Steve, and then Brett.
- 9 MR. METALITZ: Just two minor points. First,
- 10 I'm sure if the office were to decide not to issue a
- 11 similar exemption to the existing jailbreaking
- 12 exemption, I'm sure EFF would do an excellent job of
- 13 informing people about the change in the legal status,
- 14 so it would not come as a surprise.
- 15 The other point -- I hear often from the
- 16 right-hand side of the table here the adjective
- 17 "criminal" applied to the activity that is not covered
- 18 by a 1201(a)(1) exemption. I just wanted to get on
- 19 the record that, of course, the criminal liability for
- 20 1201(a)(1) only applies if you circumvent willfully
- 21 and for private financial -- pecuniary advantage or
- 22 private financial gain. So it's a -- it's not the

251 same thing as to say it's a violation of 1201(a)(1). 2 MS. HOFMANN: So that might be, for example, Mozilla? I would think. MR. METALITZ: I think -- well, I don't know what their -- I don't know what their situation is, and there are other provisions of the statute that --6 many of the groups we've talked about here I think 7 need to look at what their status would be with regard to those provisions. All I'm saying is that if 10 1201(a)(1) were to apply, starting on October 28th, 11 to -- as it does not now -- to the activities that are within the existing exemption, it would not mean that 12 13 anyone would necessarily be in any criminal liability. 14 MR. CARSON: Brett, you had a point. 15 MR. WYNKOOP: Yeah. Just going to what the 16 other side is saying that the effect of not getting 17 these exemptions is limited to a few kooks, like 18 myself, who want to run what they want to run on their 19 computers and it would not harm the citizens at large, 20 I just want to point out, I just pulled up on my very 21 tiny computer here a website called Netcraft. What

does Netcraft do? Netcraft gives statistics on what

- 1 software is used by the web servers on the Internet.
- 2 Greater than 80 percent of the web servers on
- 3 the Internet are using free software booted on free
- 4 operating systems, which, if this UEFI stuff happens,
- 5 that will be the end of it. My company, Hera
- 6 Partners, will be stuck between a rock and a hard spot
- 7 with, how are we going to run websites for our
- 8 customers?
- 9 The websites that we design and build and
- 10 host for our customers are built using an entire free
- 11 software stack with the Linux operating system at the
- 12 bottom, or the FreeBSD operating system at the bottom,
- 13 depending upon some little technical twiddly things,
- 14 followed by the Apache web server, followed by the PHP
- 15 language, followed by a piece of software called
- 16 Magenta, which is also freely licensed software, all
- 17 of which would not be able to boot on a computer that
- 18 was restricted to booting software only approved by
- 19 Microsoft.
- 20 And what would the harm in that be? Well,
- 21 the harm in that would be you would have, as computers
- 22 aged out and became no longer fast enough or no longer

- 1 able to be maintained because parts were not
- 2 available -- you would have large numbers of websites
- 3 going off the net. You would probably also have, to a
- 4 certain extent, a number of websites that would shift
- 5 over to using Microsoft's inferior products for these
- 6 services, and paying Microsoft a large tax for that.
- 7 I don't think that it is in the best interest of the
- 8 American public to do something that will have that
- 9 kind of an impact.
- And not granting these exemptions will indeed
- 11 have that kind of an impact. The half-life of a
- 12 production computer system is no more than three
- 13 years.
- MR. CARSON: Okay. We're rapidly running out
- 15 of time, and we haven't really even gotten to our
- 16 questions. So I'm going to ask that -- Ben is going
- 17 to have some questions. Listen to them carefully.
- 18 Only respond if you've really got something to say in
- 19 response to them, and try to be succinct because, if a
- 20 question is being asked, it's because we're curious
- 21 about something that may make a difference, and the
- 22 more time you take in going off point, the less likely

- 1 we are to get your answer that you really want us to
- 2 hear, so -- Ben.
- MR. GOLANT: Thank you. Directed to Aaron:
- 4 In response to what Jesse and Steve had said about the
- 5 scope of your exemption, I too had found it a little
- 6 bit difficult to wrap my hands around it. I'm not
- 7 exactly sure -- it seems rather broad, even though you
- 8 said it's limited. Is it solely -- or I should say --
- 9 substantially directed at replacing operating systems
- 10 or is there a larger component to that because you
- 11 used the term "software" rather than "operating
- 12 system" so I'm just trying to figure out what the
- 13 scope of this matter was.
- MR. WILLIAMSON: Certainly our primary
- 15 concern is the ability to replace operating systems on
- 16 available hardware. And I think if push came to
- 17 shove, we would accept an exemption that -- that only
- 18 extended that far.
- 19 I think that, however, it's important to
- 20 recognize that there, you know, a number of users of
- 21 devices of all kinds -- but we've seen it particularly
- 22 on smartphones -- sorry. We've seen it particularly

- 1 with users of smartphones and tablets. It's important
- 2 for many users to be able to get access to
- 3 applications that are not available through the
- 4 official channels on their devices. It's not
- 5 important to them to replace operating systems.
- 6 And so, you know, I think that it's important
- 7 to take those users into account when crafting an
- 8 exemption, but if you have the ability to replace the
- 9 operating system, then you'll generally have the
- 10 ability to replace applications as well. It's just a
- 11 technically more difficult step, and I wouldn't want
- 12 to leave those users out in the cold.
- MR. GOLANT: Isn't EFF's exemption request
- 14 about apps, isn't that more to their concerns that
- 15 they addressed or not? I'm just trying to figure
- 16 out --
- 17 MR. WILLIAMSON: Well, as I understand EFF's
- 18 exemptions, they apply to operating systems and
- 19 applications as well.
- 20 MR. KASUNIC: Can I follow up on that? My
- 21 understanding was that -- I think, Steve, you
- 22 carefully said that installing a new operating system

- 1 might not be -- may not be circumvention?
- 2 MR. METALITZ: I mean, this issue has come up
- 3 before in different contexts in this proceeding. And
- 4 the question is whether you need to circumvent in
- 5 order to delete something and install something else.
- 6 I don't know -- I mean, it's a factual question. I
- 7 don't know the answer to it. I think the burden is on
- 8 the proponents to show that what they want to do
- 9 requires circumvention because, otherwise, they don't
- 10 need an exemption.
- MR. KASUNIC: Jesse, do you have any thoughts
- 12 on that in terms of -- if you took all of the software
- 13 off of a device so -- part of the point was that I buy
- 14 this device, this machine, and I want -- I own that
- 15 machine, and there often isn't any licensing terms on
- 16 the machine itself; the licensing is with respect to
- 17 the software.
- 18 Can you -- well, I guess the first guestion
- 19 is, can you completely wipe it? Is there firmware or
- 20 other things that might not be able to be completely
- 21 uninstalled on the machine? And if you can, is there
- 22 any copyright issue and infringement issue or

- 1 circumvention?
- 2 MR. FEDER: Starting from -- the second
- 3 question, I think, is the easier question. Deleting
- 4 an operating system is not a copyright infringement.
- 5 MR. KASUNIC: Or circumvention?
- 6 MR. FEDER: Well, the question is, is there a
- 7 TPM that needs to be circumvented in order to have the
- 8 privileges you need to wipe the operating system?
- 9 That seems to be the assertion that's being made here.
- 10 It's a factual issue. I don't know -- I don't have
- 11 the factual answer to that question.
- 12 MR. METALITZ: The reason I raise that is if
- 13 you look at the -- the software -- the SFLC
- 14 submission, on page 10 it says, While modification of
- 15 the preinstalled operating system is sometimes
- 16 necessary to circumvent an application lock, the same
- 17 is not true of OS locked -- operating system locks.
- 18 Removal of a device's default operating system does
- 19 not require its reproduction, derivation,
- 20 distribution, performance or display, and so cannot
- 21 infringe, you know, section 106. I think that's
- 22 Jesse's points.

- 1 It struck me that I'm not sure you would need
- 2 to access it in order delete it. So I don't know
- 3 whether there's any circumvention involved.
- 4 MR. WILLIAMSON: I mean, I think there's --
- 5 there are definitional issues here that aren't easily
- 6 resolved by resort to the -- to any cases or to the
- 7 statute itself. It's possible that I can be proven
- 8 wrong on my statement in there that, for every mobile
- 9 operating system, there's no need to perform any
- 10 modification of the operating system to get the
- 11 necessary permissions to remove it.
- 12 There are, you know, as I understand it,
- 13 essentially three ways in which users are prevented
- 14 from removing an operating system. One is simply
- 15 withholding administrative rights, which makes it
- 16 impossible to delete at least some portions of the
- 17 operating system because you simply don't have delete
- 18 access.
- 19 Another is to actually, you know, sign the
- 20 operating system so that the firm -- yeah, so that the
- 21 system will not boot an unsigned operating system.
- 22 And that's another type of measure that's used to

- 1 prevent users from installing a new operating system,
- 2 but it also controls access to, I believe, the
- 3 operating system that is loaded.
- 4 And then yet a third and further measure is
- 5 to encrypt the boot loader to make it impossible to
- 6 even install a new boot loader that would then install
- 7 unsigned images.
- 8 And so there are various measures employed.
- 9 I think that all of them can certainly be construed to
- 10 control access to the existing operating system,
- 11 therefore, causing there to be a section 1201(a)
- 12 violation when you circumvent them.
- 13 MR. GOLANT: That was very clear? Was that
- 14 in your comments, because I'm not sure I --
- 15 MR. WILLIAMSON: I'm not sure if that -- all
- 16 of that was stated clearly.
- 17 MR. GOLANT: I just have a couple more
- 18 questions. Yes?
- 19 MR. WYNKOOP: One more thing on that. As I
- 20 believe the only computer systems engineer on this
- 21 panel today, if you have burned into read-only memory,
- 22 soldered into the circuit board of the computer a tiny

- 1 program that says you can't load anything that I don't
- 2 want you to load, then it becomes, from a practical
- 3 point of view, impossible to load another operating
- 4 system on top unless you can somehow wipe that
- 5 read-only memory chip and reprogram it.
- Now, I'm not a lawyer, but one -- the
- 7 reasonable man test would say somebody could call that
- 8 circumvention. But from a practical point of view, it
- 9 just makes it impossible for even very astute people
- 10 to make that change of operating system, because there
- 11 are read-only memories that are actually read-only.
- 12 Once they're burned, that's it. They can't be
- 13 reflashed. You've burned out little pathways in the
- 14 chip, and it will only do one thing. It is then a
- 15 one-trick pony.
- 16 MR. KASUNIC: Putting that back to copyright
- 17 owners, is there any copyright interest in preventing
- 18 someone from completely wiping the device?
- 19 MR. METALITZ: It's not a copyright -- I
- 20 think Jesse already stated --
- 21 MR. FEDER: Yeah, it's not an infringement.
- 22 I think --

- 1 MR. KASUNIC: It may be a 1201 issue, but the
- 2 question is, is 1201 somehow protecting a copyright
- 3 interest or is it protecting a hardware interest?
- 4 MR. METALITZ: Well, I know that the office
- 5 has made this bifurcation of what interest is being
- 6 affected. I think, just looking at the statute, the
- 7 question of installing new operating system is, I
- 8 think, totally irrelevant to the proceeding.
- 9 MR. SULZBERGER: I must have misunderstood.
- 10 I'm sorry.
- 11 MR. METALITZ: It's -- circumvention has a
- 12 definition, and it has to do with access to a
- 13 copyrighted work. So if you're removing the existing
- 14 operating system, the question is, do you need to have
- 15 access to it in order to do that? So that if there
- 16 is -- whether it's in the form of ROM or some other
- 17 form, if there is an access control mechanism that you
- 18 have to circumvent in order to do that, then we're in
- 19 the right -- then we're at the right table here. But
- 20 if not, not.
- 21 MR. KASUNIC: We're at the right table, but
- 22 we're not necessarily asking the right question.

- 1 Right? So the question would be if, in order to
- 2 obtain access to the copyrighted work in order to
- 3 protect the copyright interest in that work -- or is
- 4 the purpose of getting access to that work to
- 5 completely obliterate the work? And I think those are
- 6 slightly different things where you're not actually
- 7 going to use the copyrighted work in any way in the
- 8 second, in the latter case, and so access is just
- 9 being used sort of as the -- of the copyrighted work
- 10 could be being used as the hook there, or a
- 11 non-copyright purpose.
- MR. METALITZ: I suppose if the only purpose
- 13 of the access control mechanism was to prevent the
- 14 obliteration of the work, would it qualify? Is that
- 15 your question? I think that's -- I'm not sure what
- 16 the answer to that question is. But in this case, I
- 17 think, if there is access control in the operating
- 18 system, that's probably not its only purpose.
- 19 MR. FEDER: Again, I think this comes back to
- 20 really a security issue. That's the main reason why
- 21 you put these sorts of locks in place, to prevent
- 22 tampering with the operating system in a way that's

- 1 harmful to the user.
- 2 So I think, at the end of the day, there are
- 3 some real factual questions here and -- you know, I
- 4 come back to what I said at the beginning, which is
- 5 that it is the burden of proponents of these
- 6 exceptions to establish that what they're really
- 7 talking about here is circumvention of an access
- 8 control for a non-infringing purpose and that there is
- 9 a substantial adverse impact.
- 10 So, you know, at the end of the day, I can't
- 11 answer the technical question right now, but I think,
- 12 in essence, the burden is on the proponents to answer
- 13 those technical questions in this proceeding.
- MR. GOLANT: Could I just ask -- say, for
- 15 example, it is possible to -- think about this -- that
- 16 the DRM is a physical thing in a phone or a laptop or
- 17 any other computing device, and I took a tool and I
- 18 ripped it out. Would that be an act of circumvention?
- 19 MR. METALITZ: Yes. You're avoiding
- 20 bypassing or -- I don't think extracting is in there,
- 21 but --
- MR. GOLANT: What I'm saying, though -- I own

- 1 the phone, not the software, but it's embedded in a
- 2 chip, and I just took out the chip. That would be a
- 3 circumvention?
- 4 MR. METALITZ: If that controlled access.
- 5 MR. CARSON: Is the chip controlling access
- 6 to a copyrighted work?
- 7 MR. GOLANT: I just put a needle in and I
- 8 destroyed it. I'm just trying to --
- 9 MR. METALITZ: Similarly if you took a chip
- 10 and soldered it into your video game console in order
- 11 to circumvent an access control on the operating
- 12 system -- I mean, it could be in hardware or it could
- 13 be in software.
- 14 MR. KASUNIC: "Remove" is the word the
- 15 statute.
- 16 MR. WILLIAMSON: Steve construed the issue as
- 17 whether you need to access, within the meaning of the
- 18 act, the copyrighted work in order to remove it. And
- 19 I don't think that's the issue under the statute. I
- 20 think the issue is, first, whether the technological
- 21 protection measure controls access to the copyrighted
- 22 work, and then whether your use is non-infringing.

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And here, I think particularly -- I mean, if 1 we think -- we'll take the example of one type of technical protection measure, which is, for example, a UEFI-like operating system signing procedure -- in 5 that case, that signature or that encryption scheme does control access to the copyrighted work. We only 6 want to circumvent it for purposes of removing the 8 operating system. And that -- I think those are the 9 two steps we're concerned about. 10 MR. SULZBERGER: Just briefly. I think that when the law was passed, nobody would have 11 considered -- access to a copyrighted work means a 12 13 popular song which you've obtained either legally or 14 illegally, and then the whole -- there's some piece of 15 software that stops you from putting it up on your 16 personal website and making it freely available, 17 assuming it's under a restrictive license -- that's what they're focused on. 18 19 This is a completely different question, and 20 it's merely a coincidence -- it's a misuse. They're homonyms. Sure, the propriety OS is a copyrighted 21 That I don't doubt. Accessing it, when you're 22 work.

- 1 fiddling with the boot loader or modifying the boot
- 2 loader -- if the DMCA -- and this is part of the
- 3 reason I always say it doesn't deal with copyright --
- 4 there are many reasons I say it -- look, that's not --
- 5 you're not copying something and making profit by
- 6 distributing it. That's not what happens. You want
- 7 to put your own operating system on it.
- And the use of the word "access" to remove,
- 9 it's more like -- it's not quite a pure coincidental
- 10 homonym. There's some sense of access, but it ain't
- 11 the same thing.
- 12 Removing the -- whatever little thing is on
- 13 the song and then redistributing it, that is a
- 14 thousand miles from my putting my operating system
- 15 only a piece of hardware that I bought. It just
- 16 doesn't -- and the other side, by the way, I want to
- 17 thank them for their absolute honesty. This is maybe
- 18 a new question for them. They hear it and they tell
- 19 the truth. They don't know it sounds different. You
- 20 know, yeah.
- 21 MR. GOLANT: Just a couple more things. Two
- 22 minutes.

267 MR. CARSON: Whatever you need. 1 2 MR. GOLANT: Jesse, you had made a number of statements in the opening. Is that part of the record, some of the assertions that you made, or are these something new outside the record? In other 5 6 words, do we already have this on hand? 7 MR. METALITZ: The statistics? 8 MR. FEDER: The statistics? 9 MR. GOLANT: Yes. 10 MR. FEDER: Those are -- well, those are --11 I'm not sure those are in the articles that we sent to They are all from published articles. I can 12 13 pull them up and --MR. GOLANT: Right. I'd just like to have 14 15 some substantiation to what you say so we can put it 16 in the record. 17 Last question is, we're going back to this issue of a tablet. How really can you define what a 18 19 tablet is? I mean, from what I heard, it's a small 20 computer that you hold in your hand. Is that enough 21 for us to go forward to say that they've established 22 the class upon which we can grant an exemption?

268 MS. HOFMANN: 1 May I? MR. GOLANT: Yes. 2 MS. HOFMANN: So we thought this might come up, and so we took a stab at a definition. And what we did is we took a look at a bunch of the definitions 5 that are out there. There are some from various magazines. There are some from companies like Intel. 7 And we tried to identify some of the common factors. 9 And so this is what we suggest. A tablet computer is a personal mobile computing device, 10 11 typically featuring a touch screen interface, that 12 contains hardware technically capable of running a wide variety of programs that is designed with 13 technological measures that restrict the installation 15 or modification of programs on that device and is not 16 marketed primarily as a wireless telephone handset. 17 MR. CARSON: Could you read that to us one 18 more time? 19 MS. HOFMANN: Yes. And of course we would be 20 happy to put this in the record as well. 21 MR. CARSON: I think you are. 22 MS. HOFFMAN: A tablet computer is a personal

- 1 mobile computing device, typically featuring a touch
- 2 screen interface that contains hardware technically
- 3 capable of running a wide variety of programs that is
- 4 designed with technological measures that restrict the
- 5 installation or modification of programs on the device
- 6 and is not marketed primarily as a wireless telephone
- 7 handset.
- 8 MR. CARSON: Okay. The first part of that I
- 9 follow and I get. I'm not quite sure why you are
- 10 including in the definition of a tablet the fact that
- 11 it is contains technological measures that control
- 12 access. Why should that be part of a definition of a
- 13 tablet? I can well imagine a tablet which has no
- 14 technological measures on it of that nature.
- MS. HOFMANN: Right. Well, you know, I think
- 16 we were thinking about this in the context of our
- 17 definition of our proposed class. And we were trying
- 18 to define a device that met the criteria that we were
- 19 seeking in exemption 4.
- 20 And so the reason that we put that in there
- 21 is because we wanted to make clear that we're talking
- 22 about a situation where a device has certain

- 1 technological protection measures that make it
- 2 impossible for a consumer in the ordinary course of
- 3 things to install or modify programs on the device.
- 4 But if the goal is simply to define what a
- 5 tablet is out of the context of that particular
- 6 proposed class, that might not be necessary.
- 7 For the same reason we said it's not marketed
- 8 primarily as a wireless telephone handset because we
- 9 wanted to differentiate it from a smartphone, which is
- 10 also in our proposed class.
- 11 MR. CARSON: Okay. I think it's probably
- 12 unfair to ask people to react to it, but I can ask and
- 13 you can decline. But any reactions at this point?
- 14 MR. FEDER: I need to see it on paper.
- MR. METALITZ: If Marcia will send it to us,
- 16 we'll --
- 17 MR. CARSON: Let's do this. This is a new
- 18 and potentially helpful suggestion. If you could --
- 19 it will take us a little while to get that transcript
- 20 back. So if you could give us the actual -- maybe
- 21 e-mail us the actual text --
- MS. HOFFMAN: Absolutely.

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            MR. CARSON: -- we will send it to everyone
 1
 2
   on this panel --
            MS. HOFFMAN: Absolutely.
 3
            MR. CARSON: -- and we will ask people to
    react to us within ten days, please.
 5
            MS. HOFFMAN: Yes.
 6
             MR. WYNKOOP: We can do that because we still
   have free unfettered use of the computers today.
 9
             MR. CARSON: Better make it seven days just
10
    in case.
             Anything else? Okay. Well, thank you very
11
   much, folks. We are running behind, but I at least
12
13
   need some time to reflash my memory. So let's
    reconvene at 4:15.
14
15
             (Whereupon, a short recess was taken.)
16
            MR. CARSON: Sadly, we're nearing the end of
17
    our journey together. Dealing with proposed
18
    classes 10A and 10B, we have a panel consisting of
19
   Michael Weinberg from Public Knowledge, Dean Marks
20
    from AACS LA, Bruce Turnbull, counsel of DVD CCA and
21
   Matt Williams, of Mitchell, Silberberg and Knupp,
22
    representing the Joint Creators and Copyright Owners.
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- 1 Is that the order we'll go in as I see you from left
- 2 to rate or is it -- okay. Good.
- 3 Michael, you can start off.
- 4 MR. WEINBERG: I'm glad I'm not the only
- 5 one -- it's the first time up for all these panelists
- 6 all day. I feel bad for you guys. You've been here
- 7 the better part of three days.
- 8 Thank you all for this opportunity. I'm
- 9 Michael Weinberg, and I testify today on behalf of
- 10 Public Knowledge in support of class 10A.
- By any measure, DVDs have been wildly
- 12 successful, with billions sold since their
- 13 introduction in the late 1990s. The hundreds of
- 14 consumers who wrote to you in support of this
- 15 exemption were a sample of American households, many
- 16 of which own dozens or even hundreds of motion
- 17 pictures on DVD. These DVD owners make up some of the
- 18 movie industry's best customers.
- 19 Those customers are frustrated with technical
- 20 protection measures that stop them from making
- 21 legitimate personal copies of those motion pictures.
- 22 The customers who wrote to you, who represent millions

- 1 of similarly situated Americans, simply want to be
- 2 able to watch their movies in a way that makes sense
- 3 for them. They do this every day with the music they
- 4 own on CD at the click of a button. But DVD CSS makes
- 5 what should be a simple task illegal. Fortunately,
- 6 this proceeding gives you an opportunity to change
- 7 that.
- 8 Let there be no mistake. There is nothing
- 9 illegal about personal space shifting. In one of the
- 10 few cases to directly discuss personal space shifting,
- 11 the Ninth Circuit citing the Supreme Court in Sony,
- 12 described space shifting music for personal use as,
- 13 quote, paradigmatic non-commercial personal use. That
- 14 description is just as applicable to the practice of
- 15 copying motion pictures from DVDs for use in personal
- 16 devices, and it is a description that is widely
- 17 accepted by the public and industry today.
- 18 I will not repeat the extensive fair use
- 19 analysis from our comments in these opening remarks.
- 20 At this time, I will merely remind the office that
- 21 personal space shifting is a non-commercial,
- 22 potentially transformative use of a work that has been

- 1 released and sold to the public with no cognizable
- 2 negative impact on the value of the work.
- 3 Tellingly, opponents have been unable to
- 4 point to case law suggesting otherwise. The closest
- 5 case they've been able to find, UMG v. MP3.com,
- 6 considers a business purchasing recordings on CD and
- 7 making them available to the public, not consumers
- 8 accessing recordings they have purchased themselves on
- 9 the device of their choosing.
- 10 In fact, there are very few cases addressing
- 11 the issue of personal space shifting. This would be
- 12 unexpected if there was a legitimate case to be made
- 13 against the practice. After all, personal space
- 14 shifting of a variety of media is widespread and has
- 15 been for over a decade. And, as we all know, large
- 16 content owners, including those represented here at
- 17 the table today, have never been shy about enforcing
- 18 their rights when they feel there's been a violation.
- 19 However, they've avoided bringing claims against
- 20 personal space shifting.
- 21 In fact, the RIAA, one of the joint creators
- 22 and copyright owners represented today told the

- 1 Supreme Court that personal space shifting was, quote,
- 2 perfectly lawful. Similarly, the MPAA and the RIAA
- 3 have extensive commercial agreements with Apple and
- 4 its iTunes platform, which builds one-click space
- 5 shifting functionality directly into its software.
- 6 The shortage of case law is no barrier to the
- 7 Register granting this exemption. As the Register has
- 8 recognized, the statutory requirements to evaluate
- 9 exemptions necessarily requires a degree of
- 10 independent examination. The statutorily mandated
- 11 process of consulting, determining, weighing the
- 12 likelihood of future impact and recommending all
- 13 require the Register to draw conclusion beyond the
- 14 black letter of the law, which the Register has done
- 15 in previous proceedings.
- 16 Furthermore, the Register's recommendation
- 17 does not prevent rights holders from litigating the
- 18 issue. If a court were to find non-commercial
- 19 personal space shifting to be an infringement, the
- 20 existence of the exemption would offer the infringing
- 21 party no protection from a copyright infringement
- 22 judgment.

- 1 Beyond the question of the underlying
- 2 legitimacy of the use, the statute presents the
- Register with a number of factors to consider in
- 4 evaluating the requested exemption. In this case, all
- 5 relevant factors weigh in the favor of granting the
- 6 exemption.
- 7 The first factor, the impact of the exemption
- 8 on the availability of the copyrighted work, has
- 9 traditionally been evaluated a three-part test
- 10 considering the actual impact on the availability of
- 11 the work, the availability of the work in other
- 12 formats, and alternative means of access.
- 13 As the Register recognized in the previous
- 14 rulemaking, widespread access to CSS circumvention
- 15 tools has caused no discernible impact on the
- 16 willingness of copyright owners to embrace DVD-based
- 17 distribution.
- 18 In our current world of one-click CSS
- 19 circumvention, it strain credibility to imagine that
- 20 granting this exemption would have any impact on the
- 21 availability of works on DVD.
- 22 Additionally, while some motion pictures are

- 1 available in non-DVD formats, ten years of DVD-first
- 2 distribution has created a huge number of works which
- 3 are only available on DVD.
- In the case of works that have been
- 5 re-released in formats that might allow some sort of
- 6 personal space shifting, it is unreasonable to require
- 7 consumers to repurchase motion pictured they already
- 8 own simply to make a legal use of the works.
- 9 As for the third part of the test, we saw and
- 10 heard in earlier testimony that alternative means of
- 11 access are inadequate substitutes both in output
- 12 quality and in burden on consumers. Using either
- 13 camcording or screen capture to create a high-quality
- 14 reproduction, which are by no means exact
- 15 reproductions, is a technically complicated process
- 16 that is time and computing resource-intensive. When
- 17 compared to the one-click copy that most consumers use
- 18 to space shift music, the technical complexity alone
- 19 excludes millions of Americans from this perfectly
- 20 legitimate activity.
- 21 Even if a consumer overcomes the technical
- 22 problems, the result is an imperfect, inadequate copy.

- 1 Image quality matters to average consumers.
- 2 High-definition televisions are not only sold to media
- 3 studies departments. Movie studies do not spend
- 4 hundreds of millions of dollars on sets and special
- 5 effects in the hopes that a documentarian will include
- 6 a clip in their next film. The PBS documentary image
- 7 quality standards described in the earlier technical
- 8 demonstration are expensive to maintain, but they
- 9 exist because average viewers can tell the difference.
- 10 Poor quality images can fundamental change a motion
- 11 picture.
- 12 The second and third statutory factors, which
- 13 consider nonprofit and critical uses, do not directly
- 14 apply to this requested exemption. However, there's
- 15 nothing in the language of the statute to suggest that
- 16 impacting every element is a prerequisite for granting
- 17 an exemption.
- 18 The fourth factor considers the impact of the
- 19 exemption on the value of the work. As mentioned
- 20 briefly earlier and discussed extensively in our
- 21 proposal and reply comments, this exemption will have
- 22 no negative impact on the market for the value of

- 1 copyrighted works. It will not contribute to piracy.
- 2 It will not somehow confuse consumers. It will not
- 3 add to the supply of unauthorized copies of works.
- 4 The Register has recognized this in the past, and
- 5 nothing has occurred to alter the soundness of that
- 6 conclusion.
- 7 The fifth statutory factor is simply any
- 8 other factor that may be relevant to the proceeding.
- 9 In the 2010 recommendation, the Register formally
- 10 recognized what had long been obvious: CSS is being
- 11 used predominantly to prevent reproduction, not
- 12 control access. As a result, socially beneficial
- 13 non-infringing uses are being adversely affected by
- 14 the prohibition against circumvention. That was true
- 15 then, and it is true today.
- 16 I'd like to conclude with an observation.
- 17 The Register and Copyright Office would do a
- 18 disservice to itself and the public if it failed to
- 19 recognize the true state of affairs with regards to
- 20 motion pictures released on DVD. This exemption is
- 21 not about piracy. CSS has been cracked for well over
- 22 a decade. Movie piracy is widespread, a fact that

- 1 many of the opponents of this exemption spend a great
- 2 deal of time and money pointing out in every available
- 3 forum. There is no latent infringement capacity
- 4 waiting to be unleashed by the Register's
- 5 recommendation.
- 6 This exemption is not about confusing the
- 7 public. People space shift media every day and are
- 8 capable of understanding the difference between space
- 9 shifting media they own and illegally downloading
- 10 media that they do not.
- 11 This exemption is about restoring the rights
- 12 of consumers who play by the rules. It's simply
- 13 allows consumers, who have lawfully acquired motion
- 14 pictures on DVD, to space shift them for personal use.
- 15 Restoring this type of ability is precisely what this
- 16 proceeding is designed to do, and I urge you to do so.
- 17 I look forward to answering your questions.
- MR. CARSON: Thank you.
- 19 Dean.
- 20 MR. MARKS: Thank you. Dean Marks on behalf
- 21 of AACS LA, the Advanced Access Content System
- 22 Licensing Authority, and here just to make two very

- 1 limited and brief points. First, as we have said with
- 2 regard to a number of the other requests for
- 3 exemptions filed in this proceeding, we want to
- 4 emphasize that requests that do not specifically name
- 5 Blu-Ray discs or the AACS technology cannot be granted
- 6 with respect to such discs and technology. And that
- 7 includes the request filed by Public Knowledge that is
- 8 the subject of this panel, and also one of the
- 9 requests filed by an individual. And this was noted
- 10 in our comments in February, but I wanted to be sure
- 11 we put that on the record for the testimony here
- 12 today.
- 13 Second, with regard to the handful of
- 14 requests from four individuals who wish to make
- 15 back-up or convenience copies of content where the
- 16 requests did refer to Blu-Ray discs or AACS
- 17 technology, AACS LA notes that none of these requests
- 18 state with any specificity that the AACS technology is
- 19 impeding an identified authorized or fair use, none
- 20 actually provide the necessary explanation of why the
- 21 uses is an authorized use and that such use is not
- 22 able to be satisfied due to the presence of AACS as an

- 1 effective technological measure under the law, and
- 2 none of them state the kind of specific, narrowly
- 3 tailored class that the Register has stated is
- 4 required for an exemption.
- 5 Accordingly, we request that each of these
- 6 individual requests not be granted, at least as to
- 7 AACS technology on Blu-Ray discs.
- 8 And I'm happy to respond to questions the
- 9 copyright panel may have. Thanks.
- MR. CARSON: Thank you.
- 11 Bruce.
- MR. TURNBULL: I'm Bruce Turnbull,
- 13 representing the DVD Copy Control Association, same
- 14 organization we were yesterday for the record. And
- 15 here -- I'm going to start out with the proposition
- 16 that I think the proponents have not met their burden
- 17 of demonstrating that the uses are, in fact,
- 18 non-infringing uses. We can get into that, and
- 19 perhaps Matt will have more to say about that.
- I want to spend my time on three points that
- 21 DVD CCA thinks are critical. First, that the class is
- 22 not the narrow refined class that the Copyright Office

- 1 has stated is essential to the granting of any
- 2 exemptions. Second, that granting an exemption of
- 3 this scope and breadth would overwhelm the CSS
- 4 licensing system to the great detriment not only of
- 5 DVD CCA, but of the movie industry that has relied on
- 6 it -- the integrity of the licensing system for nearly
- 7 15 years, and the consuming public who have enjoyed
- 8 DVD as the format for that period of time. I have
- 9 some points to make about how Public Knowledge, I
- 10 think, misconstrued points related to that in their
- 11 responding comments. Third, the ways in which content
- 12 is now available and will be available in the next few
- 13 years satisfy the desire to have content available on
- 14 a wide variety of consumer devices.
- 15 First point. The proposed class is precisely
- 16 the kind that the Copyright Office has considered and
- 17 rejected in previous rulemakings and the kind that the
- 18 office warned against in its initiation notice in this
- 19 current proceeding. To take a couple of points from
- 20 the initiation notice, the Copyright Office said a
- 21 class of works was intended to be a, quote, narrow and
- 22 focused subset of broad categories of authorship

- 1 identified in section 102. That was quoted in the
- 2 Commerce Committee report.
- Second, again, from the initiation notice,
- 4 the goal is to fashion an exemption that is neither
- 5 too narrow nor too broad to remedially address the
- 6 evidence of present and likely harm. It shall be an
- 7 appropriately fashioned exemption that will assist
- 8 users and copyright owners alike by temporarily
- 9 suspending the prohibition on circumvention for
- 10 appropriately tailored, adversely affected classes
- 11 while preserving the prohibition on all other classes.
- 12 And our view is this would effectively not
- 13 preserve the prohibition on the rest of the class.
- 14 From the 2006 rulemaking, there are a number
- 15 of points -- and this is what we've got up on the
- 16 screen here is a comparison between what the Register
- 17 found and the librarian found to be an unacceptable
- 18 class and what is proposed here.
- 19 In relation to the effect on criticism
- 20 comment, news reporting, teaching, scholarship and
- 21 research, the proposed class is premised -- for
- 22 personal performance is unlikely to have any

- 1 beneficial effect on reporting, teaching, scholarship
- 2 or research.
- 3 So we -- obviously, it does not meet that
- 4 category.
- 5 The effect of circumvention on the market for
- 6 or value of a particular class of copyrighted works,
- 7 the -- what was found unacceptable was a broad
- 8 exemption, all motion pictures on DVDs, potentially
- 9 harmful to copyright owners and would adversely affect
- 10 the public by undermining the incentive for
- 11 distribution of digital copies of motion pictures and
- 12 audio-visual works.
- And that's precisely the category here.
- In the 2010 rulemaking, the office talked
- 15 about proposals that were narrowly tailored with
- 16 regard to a discrete set of users who had demonstrated
- 17 a sufficient need to circumvent DVD access controls
- 18 for limited, non-infringing purposes. And no
- 19 proponent had demonstrated the need to circumvent in
- 20 order to copy a motion picture in its entirety, and no
- 21 proponent has demonstrated the need to use a
- 22 quantitatively large percentage of the motion picture.

- 1 And, again, we think these are comments that
- 2 were well taken from the prior proceedings and were
- 3 reiterated as part of the initiation notice in this
- 4 proceeding.
- 5 Furthermore, the kinds of considerations that
- 6 were discussed in previous panels, various gatekeepers
- 7 in the professional filmmaker context, other limiting
- 8 factors in the vidder panel -- we had quite a bit of
- 9 discussion about various factors there -- are
- 10 conditions that are designed to ensure that an
- 11 exemption is not misused. There's no suggestion of --
- 12 and we couldn't come up with any suggestions of those
- 13 kinds of limiting factors or gatekeeper roles that
- 14 would be present when you're talking about
- 15 circumvention that would be used by the entire
- 16 population.
- 17 And, here, we believe this is a classic case
- 18 of the exception swallowing the rule. It would not
- 19 have the kind of narrow tailoring that the Copyright
- 20 Office has required in prior proceedings and as set
- 21 forth in the initiation notice.
- Now, with regard to the licensing regime, we

- 1 cited particularly the Kaleidescape case in our
- 2 comment. Aspects of the Real Networks case are also
- 3 relevant here. In the Real Networks case, the court
- 4 found that CSS technology is -- still effectively
- 5 controls access to DVD content for the average
- 6 consumer. Notwithstanding what Mr. Weinberg had to
- 7 say about the status of the CSS technology, it has
- 8 been recognized by courts as still being effective.
- 9 In the Kaleidescape case, the harm to DVD CCA
- 10 was found to be from a space shifting Kaleidescape
- 11 product which is, you know, a form of the kind of
- 12 space shifting that's proposed here -- the harm was to
- 13 the integrity of the CSS license agreement, and that
- 14 harm was sufficient to support an injunction against
- 15 the distribution of the Kaleidescape product. So not
- 16 only was there a finding that the Kaleidescape product
- 17 was a violation of the agreement that DVD CCA had with
- 18 Kaleidescape, but in addition that the harm to the
- 19 integrity of the licensing system was sufficient to
- 20 justify the injunction.
- 21 And that, again, I think is precisely the
- 22 kinds of space shifting that is proposed here, and we

- 1 believe the kind of harm that would occur to the
- 2 DVD CCA licensing system.
- The third point I wanted to emphasize -- and
- 4 I think we're going to see a little video on this in a
- 5 minute -- but I wanted to emphasize, from DVD CCA's
- 6 perspective the various alternatives that are in the
- 7 marketplace today that allow consumers to have movie
- 8 content in a wide variety of devices from a wide
- 9 variety of sources, some of them streamed, some of
- 10 them download, some of them copies that they've made.
- 11 UltraViolet is probably the preeminent example that's
- 12 out there the marketplace and growing today. We saw
- 13 the tech demo about UltraViolet from Mitch Singer on
- 14 May 11th. Digital Copy is also prominent on -- with
- 15 many, many movies that are distributed in disc form,
- 16 particularly Blu-Ray. There are an array of
- 17 sources -- of content available through online
- 18 distribution mechanisms of a variety of kinds. These
- 19 are alternatives to the circumvention that the
- 20 proponent suggests.
- 21 By the way, I would note that we are not
- 22 suggesting that screen capture or video recording with

- 1 your cell phone are alternatives in this case. We
- 2 would not recommend those as -- for the purpose of
- 3 capturing an entire work. Those were demonstrated and
- 4 indicated in our prior testimony as alternatives for
- 5 clip copy circumstances. We don't propose them here.
- 6 Finally, as we discussed yesterday, while DVD
- 7 remains king -- 75 percent of the physical product
- 8 movie distribution is still on DVD -- however, the
- 9 market for DVD and, indeed, the overall home video
- 10 entertainment market is in decline. And our concern
- 11 is very much that this kind of broad-based consumer
- 12 exemption available to every human being in the
- 13 country would contribute significantly to the further
- 14 decline and the more rapid decline of the DVD
- 15 marketplace.
- 16 Thank you. And I'll be happy to answer any
- 17 questions.
- 18 MR. CARSON: Matt.
- 19 MR. WILLIAMS: Thank you. I'm Matt Williams.
- 20 I represent the Joint Creators and Copyright Owners.
- 21 I will be brief because we're at the end of the day
- 22 and because, as Bruce said, the proposals we're here

- 1 to discuss have been raised and objected in every
- 2 cycle of the proceeding since 2000, including the last
- 3 cycle in 2010.
- 4 Some things have changed since then and some
- 5 things have not. So, first, what hasn't changed, and
- 6 that's the case law. Public Knowledge has not cited
- 7 any case that was issued since the last cycle to show
- 8 the law has changed since the Register previously
- 9 considered it. Space shifting is clearly distinct,
- 10 for example, from search engine thumbnail copying as
- 11 in Perfect 10 or in Arriba Soft. That involved
- 12 publicly available search engines, so it's completely
- 13 different.
- I wanted to give some quotes from cases that
- 15 Public Knowledge relies on, because I don't think the
- 16 cases is really support their position. So in
- 17 Universal versus Sony, the Supreme Court said the
- 18 purpose of copyright is to create incentives for
- 19 creative effort. Even copying for non-commercial
- 20 purposes may impair the copyright holder's ability to
- 21 obtain the rewards that Congress intended him to have.
- 22 Similarly, in the Perfect 10 case that Public

- 1 Knowledge relies on, the Ninth Circuit cited the Wall
- 2 Data versus L.A. County Sheriff opinion for the notion
- 3 that using a copy to save the cost of buying
- 4 additional copies is not a fair use.
- 5 So I just don't think the burden can be met
- 6 on in-fact non-infringing. There may be some
- 7 instances of space shifting out there that I don't
- 8 think have been identified in the record that could
- 9 qualify, but the burden has not been met.
- 10 Second, another thing that hasn't changed is
- 11 the rules and purpose of this proceeding. First, on
- 12 that, convenience is still not a valid reason for an
- 13 exemption. Yet, Public Knowledge admits it seeks an
- 14 exemption, the primary purpose of which is to avoid
- 15 inconvenience.
- 16 The last sentence of their reply comments
- 17 expressly says so. They say, if the exemption is
- 18 granted, quote, the only thing that will change is
- 19 that consumers will be finally able to make use of
- 20 motion pictures on DVD the same way they make use of
- 21 musical works on CD, as works they have lawfully
- 22 acquired and are free to move to whatever personal

- 1 device is most convenience.
- 2 So they're expressly, I think, just
- 3 challenging whether convenience should be grounds for
- 4 an exemption, and I think the ground rules should
- 5 remain as they always have been on that point.
- 6 Another thing that hasn't changed is that one
- 7 of the ground rules is that providing consumers with
- 8 the most cost-effective -- excuse me, cost-effective
- 9 method of consuming video content -- that's not
- 10 grounds for an exemption. So Public Knowledge's
- 11 objections to small payments for different levels of
- 12 access, that should be disregarded.
- 13 So now, importantly, what has changed? I
- 14 think the factual record on the marketplace
- 15 availability of movies and television shows has
- 16 changed significantly. The record shows that much has
- 17 developed in the marketplace to undermine the position
- 18 that space shifting should be presumed lawful or that
- 19 an exemption is needed. Content is available in more
- 20 formats pursuant to licenses, and Public Knowledge
- 21 acknowledges that this is undeniable in their
- 22 comments.

1	Copyright owners are exploiting existing
2	markets and developing potential markets without
3	exception. The record includes more testimony from
4	studio executives than ever before on this point, in
5	addition to our written comments.
6	The record also contains more testimony that
7	the security of access controls is critically
8	important for licensing these new services. Public
9	Knowledge has introduced no facts to rebut that
10	testimony, despite having the burden of persuasion.
11	This proposed exemption would undermine
12	revenue streams for new services. These services are
13	enabling the very means of access Public Knowledge
14	aims to champion. This is not about people paying
15	twice for the same access, but about paying for
16	different level of access. Copyright owners can offer
17	different levels of access at different price points
18	because the DMCA enables them to do so. This benefits
19	consumers who prefer limited access at reduced prices
20	without depriving other consumers who want enhanced
21	access and are willing to pay increased prices.
22	Buying one copy of a work simply does not

- 1 transfer a license to copy the work as many times as
- 2 one chooses. This is the foundation of copyright law
- 3 in all sectors, and I want to read a few more quotes
- 4 from cases just to underscore that.
- 5 In the Napster opinion, the Ninth Circuit
- 6 said, Impact in one market -- here, the audio CD
- 7 market -- does not deprive the copyright holder of the
- 8 right to develop identified alternative markets --
- 9 here the digital download market.
- 10 In the opinion that Mr. Weinberg noted,
- 11 cited, UMG versus MP3.com -- granted, the case is
- 12 distinguishable in some respects, and we wouldn't say
- 13 that it's dead on point, but there are relevant
- 14 statements in the opinion. And, for example, the
- 15 court said, Defendant argues its activities can only
- 16 enhance plaintiff's sales since subscribers cannot
- 17 gain access to particular recordings made available by
- 18 MP3.com unless they have already purchased or agreed
- 19 to purchase their own CD copies of those recordings.
- 20 Any allegedly positive impact of defendant's
- 21 activities on plaintiff's prior market in no way frees
- 22 defendant to usurp a further market that directly

- 1 derives from reproduction of plaintiff's copyrighted
- 2 works.
- 3 Finally, in the Sony versus Tenenbaum
- 4 opinion, which is an opinion that generally I would
- 5 not endorse as having my favorite articulation of
- 6 certain points of law, but I think on this point is
- 7 relevant -- there the judge said, Defendant claims
- 8 that copyright law does not protect what he labels an
- 9 outdated business model and that the plaintiffs have
- 10 other means of profiting from these works. What he
- 11 seems to be arguing is that even in the era of filing
- 12 sharing, the plaintiffs still make enough money from
- 13 their copyrights. But the sufficiency of the
- 14 plaintiffs' profits not is not the measure of fair
- 15 use, nor is the defendant's view of what amounts of
- 16 profits are enough relevant to fair use. Congress has
- 17 not capped the revenue that a copyright holder may
- 18 derive from its monopoly, and that is indeed a
- 19 quintessential legislative judgment.
- Now, Public Knowledge claims that some titles
- 21 available on DVD are not available in other digital
- 22 formats, but I don't think they've pointed to one

- 1 single such title in the record. So this failure
- 2 forecloses reliance on that argument in my view.
- 3 And, finally, although I think there's
- 4 absolutely no grounds for granting this proposed
- 5 exemption, I do want to point out that the proposal
- 6 itself lacks contours, the proposal does not define
- 7 space shifting, it does not properly limit the
- 8 proposal to owners as opposed to lawful possessors of
- 9 copies, for example, renters of a copy. And, again,
- 10 although Public Knowledge says at times that this is
- 11 about titles that are not available in any format but
- 12 DVD, it's not limited its proposal to such titles, and
- 13 there's no evidence to support that such titles are
- 14 causing consumers any concerns.
- 15 Importantly, I want to emphasize that my
- 16 clients recognize that their customers seek to access
- 17 content on multiple devices. They are striving to
- 18 provide such access through licensed and secure
- 19 methods, working with technology partners to create
- 20 new services that benefit consumers.
- 21 The Register should not undermine these
- 22 activities by recommending the proposed exemption to

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- 1 the librarian. And we want to play a very brief video
- 2 that describes some of these new services just so that
- 3 the record has a sense of what's out there.
- 4 (Discussion held off the record.)
- 5 MR. KASUNIC: In terms of some of the things
- 6 that we may be seeing some more about, is we -- at the
- 7 tech demonstration, we had one example of the Walmart
- 8 conversion business licensing agreement. And is that
- 9 something that -- I guess it's a question for both:
- 10 How does that fulfill this need?
- 11 MR. WEINBERG: No. The short answer is -- I
- 12 mean, it does provide -- and I was not the tech
- 13 demonstration, I apologize, but I thin I'm fairly
- 14 familiar with that offer. It charges consumers a
- 15 second time for something they already own. And I
- 16 think that is one of the core issues here, is that it
- 17 creates a completely unnecessary burden both
- 18 logistically, just because you have to go to Walmart.
- 19 And also you need to pay -- I believe it's 2 or \$3 per
- 20 disc to make this copy, and you're essentially paying
- 21 for a license for something that you do not need a
- 22 license to do.

- 1 And so while it is true that you could have a
- 2 business model that charges consumers to make that
- 3 copy, I don't know that's a business model that the
- 4 Copyright Office should get behind and the copyright
- 5 law necessarily supports.
- 6 Similarly, I think if consumers were charged
- 7 every time they wanted to make a copy of a CD they
- 8 owned to move it onto an iPod or something like
- 9 that -- you could imagine a business model like that
- 10 and you probably would make a good deal of money in a
- 11 business model like that, but it doesn't make it a
- 12 business model that should be seen as legitimate,
- 13 especially in a proceeding like this.
- 14 MR. CARSON: And, of course, with respect to
- 15 music, we've got a particular statutory provision
- 16 which gives consumers permission to do that, which was
- 17 enacted sometime after section 107, which suggests
- 18 Congress seems to have seen it a necessity to enact a
- 19 statute, which suggests perhaps Congress didn't see
- 20 section 107 as providing that right.
- 21 So why should we assume that Congress didn't
- 22 know what it was doing? Or should we assume that

- 1 Congress had some other purpose in mind?
- 2 MR. WEINBERG: I think what you have to look
- 3 at fundamentally is the understanding of where the
- 4 power of fair use is and what is allowed and what
- 5 isn't allowed. Although there are a number of cases
- 6 dealing with -- that sort of secondarily deal with
- 7 these issues in commercial agreements and -- you know,
- 8 we're talking about the validity of the CSS license in
- 9 terms of being on licensed players and things like
- 10 that, in Kaleidescape and Real, at its core you still
- 11 have a situation where you have people who want to
- 12 make personal copies of media that they own.
- 13 And the little amount of case law that we
- 14 have suggests that it's completely legitimate. And
- 15 the lack of case law, I would argue, also suggests
- 16 it's a completely legitimate activity. And it's not
- 17 limited to music. Music is the most obvious, but most
- 18 people actually have an understanding that it is
- 19 currently legal to make personal copies of movies they
- 20 own on DVD right now.
- 21 MR. CARSON: What's the relevance of most
- 22 people's understanding to the question of whether it

300 is, in fact, legal? 2 MR. WEINBERG: So, obviously, this is not an Athenian democracy. We don't vote on laws by reason --MR. CARSON: If it were, a lot of us wouldn't 6 be --7 MR. WEINBERG: Right, right, right. Sure. So it is not directly relevant to the legality. think the legality is something we deal with by walking through the fair use analysis in our proposal. 10 11 But it does go to the question of undermining the 12 validity or the power of CSS. And when you -- or 13 confusing consumers, which is something that was raised in some of the comments on the proposal. 14 15 there's just -- there's simply no threat that 16 consumers will be confused by this exemption because 17 it actually restores the world to the way that they 18 think it is right now. 19 MR. MARKS: Well, I'm going to let Bruce 20 handle all the CSS stuff. I wanted to make one point 21 on the fair use of the personal copying, which is just 22 to remind the panel, as if you would need reminding

- 1 anyway, but the one case that really dealt with in the
- 2 context of the audio-visual work, the Sony Betamax
- 3 case. It was very clear -- and the court made clear
- 4 in one of its footnotes -- the premise was for time
- 5 shifting where the copy of the work was made for later
- 6 viewing and then erased, and not a space shifting copy
- 7 which presumably is kept permanently for viewing on
- 8 alternative devices.
- 9 And I think that there's a dramatic
- 10 difference between the two.
- 11 MR. CARSON: Okay. Let's give Michael a
- 12 chance to respond to that.
- 13 MR. WEINBERG: I think there is -- there is
- 14 certainly a difference between time shifting and space
- 15 shifting. And I guess where I'm going to, I suspect,
- 16 fundamentally disagree with the rest of the panel here
- 17 is that the lack of case law specifically endorsing
- 18 space shifting does not suggest to me that space
- 19 shifting is not or cannot be a fair use.
- 20 And, furthermore, I think, as I mentioned in
- 21 my testimony, the reason that there is no case law on
- 22 it is because it is an activity that is so far from

- 1 objectionable that rights holders have not seen fit to
- 2 bring cases against people who are doing it.
- MR. CARSON: Bruce wants to make a point, and
- 4 then I think we may be ready to go to the video.
- 5 Bruce.
- 6 MR. TURNBULL: I think the reason there's not
- 7 case law -- or a reason there is not case law on this
- 8 is because of a fundamental difference in the product
- 9 market.
- 10 In the video realm the product market has
- 11 been based on the licensing regimes CSS, AACS, the
- 12 regimes that are set up for access from various
- 13 distribution networks, be they cable or online
- 14 distribution, where the machine that receives the
- 15 product has to obey certain rules, the same way in CSS
- 16 and AACS.
- 17 That's been very different from the music
- 18 market where music was distributed on unencrypted
- 19 open -- so you didn't need a license in order to get
- 20 access to it. And so the devices developed in a very
- 21 different way and the computer program developed in a
- 22 very different way.

- 1 In the video market where the devices have
- 2 strayed from the license terms, Kaleidescape, Real,
- 3 they have been sued. And it has not gone off on a
- 4 fair use analysis because the issue had to do with the
- 5 contract and the violation of the DMCA. But the case
- 6 law -- to me, I think it's fundamentally because the
- 7 device and product makers have made their products in
- 8 accordance with the license agreements and the
- 9 distribution terms that have been put out there. And
- 10 so there haven't been -- you can't go into Best Buy
- 11 and buy a device that allows you to make a copy of a
- 12 DVD. They don't sell them.
- 13 You can get them off of the Internet on
- 14 websites that various people, you know, are
- 15 downloading from. I'm not disputing that, although
- 16 the reason you can do that is because of the way the
- 17 Internet operates. And although the cases were
- 18 brought and -- and -- you know, both from a trade
- 19 secret standpoint and from the DMCA standpoint, cases
- 20 were that those should not exist under the DMCA or --
- 21 or the contract.
- But I think the case law has not developed

- 1 because of the way the devices have -- and the studios
- 2 have chosen for, you know, whatever reason, perhaps
- 3 good reason, watching their brethren in the recording
- 4 industry, not to sue individuals who have perhaps made
- 5 copies of movies.
- 6 MR. CARSON: So what do we know about the
- 7 practice or non-practice in the marketplace of
- 8 individuals making personal copies of DVDs? Is it a
- 9 widespread practice? Is there anything in the record
- 10 that tells us one thing or another about it?
- 11 MR. MARKS: I can certainly say -- there were
- 12 two points I wanted to make. One point, in the
- 13 disc to digital service that has recently launched at
- 14 Walmart that Michael referred to and that was referred
- 15 to in testimony on May 17th, we've gotten a lot of
- 16 positive feedback from -- from it. There have been
- 17 YouTube testimonials that have been referred to of
- 18 consumer saying that they -- this was very easy, this
- 19 was very convenient. And we have not heard
- 20 testimonials from people saying, I'm doing this anyway
- 21 and why would I ever bother to --
- MR. CARSON: Well, they certainly wouldn't be

- 1 testimonials.
- 2 MR. WEINBERG: Actually, when the
- 3 announcement for the Walmart service was made, I put
- 4 up a blog post that was probably one of our most
- 5 viewed blog posts; not surprisingly, it was not as
- 6 positive as some of the YouTube testimonials about it.
- 7 And it was syndicated very widely with outrage about
- 8 that -- forcing people to pay to have the service.
- 9 And, again, we're basically now stacking up,
- 10 you know, some number of YouTube videos versus some
- 11 number of angry blog posts going the other way.
- 12 My point isn't that one is larger than the
- 13 other, but I would say that there -- in many quarters
- 14 of the public there has been a fairly negative
- 15 reaction to this as a service being offered.
- 16 MR. CARSON: But back to my question, do we
- 17 know anything about the general practice among the
- 18 public with respect to making personal copies of DVDs?
- 19 MR. TURNBULL: Well, I think there are two
- 20 points. I don't have statistics on this, but I think
- 21 two things are relevant here. One is that for many,
- 22 many people, watching a movie once is just fine. And

306 so -- as compared with music where you're likely to want to listen to it over and over --MR. CARSON: You don't have small children, do you? MR. TURNBULL: Well, there are some 5 exceptions. But you can watch it over and over and 6 over again if you have the DVD. But -- but being able to make a copy of it for lots of purposes -- I mean, if you rent it at the store or whatever, you wouldn't 10 necessarily care about making a copy. 11 The second thing is that, until relatively recently -- and it's not -- I don't mean in the last 12 13 six months, but relatively recently the file size of the movie, if you were going to try to make a copy of 14 15 a DVD, you were making -- you were going to take up a 16 considerable amount of space on whatever storage 17 medium you had. And so the proposition of doing that was something that many consumers, you know, wouldn't 18 19 want to bother taking up their files size. 20 So I think that, you know, the recent 21 phenomenon of all kinds of different devices of the --

of having lots of storage space is something that the

- 1 market is reacting to. That's where the UltraViolet,
- 2 you know, comes in. That's where the -- the
- 3 availability of a variety of different services comes
- 4 in.
- 5 And so the market is responding to what may
- 6 be an increased or relatively new demand for
- 7 availability of movies on different kinds of devices
- 8 because, up till now, the devices didn't exist and the
- 9 file size was such that you didn't want to clog up
- 10 your system.
- 11 MR. CARSON: The reason I keep asking this
- 12 question is the Michael has made a point -- and I
- 13 don't necessarily accept it, but I at least want to
- 14 test it -- that there's a perception among the public
- 15 and a practice among the public of making personal
- 16 copies. And while I don't know there's evidence in
- 17 the record about this, I think we all probably
- 18 understand that, with respect to music, that's
- 19 probably true.
- 20 So I guess I'd like to know what Michael
- 21 knows about the practice or not of making copies of
- 22 DVDs.

- 1 MR. WEINBERG: And it probably won't surprise
- 2 you to hear that I don't have extensive stats on the
- 3 practice that is now, you know, illegal to break DRM,
- 4 so I don't have numbers on it. But what I can tell
- 5 you in part of our reply comments we included hundreds
- 6 of comments from people talking about how they want to
- 7 be able to use this and how this is something that
- 8 they want to be able to do.
- 9 And some of them is, yes, they have children
- 10 who love a -- some subset of movies, and they want to
- 11 be able to put those movies on an iPad so, when they
- 12 travel, they can hand the iPad to their kids. People
- 13 who do traveling between -- there was one person who
- 14 said they have, as they described it, 27 linear feet
- 15 of DVDs and they travel to a summer house and they
- 16 would prefer to be able to have their movies on a hard
- 17 drive or two instead of five boxes in the back of
- 18 their car.
- 19 You have people who go through all sorts
- 20 of -- I would encourage you to look at the record and
- 21 see all the strange -- personally -- unexpected
- 22 specific uses.

- 1 We have a -- one of my colleague has a nephew
- 2 who's autistic who loves this very small -- number of
- 3 movies, and so they want to be able to load them on an
- 4 iPad so they can give the nephew the iPad and just
- 5 sort of let him be comfortable and calm there without
- 6 having to keep switching things in and out.
- 7 In terms of the public perception, it's
- 8 funny -- I have -- again, I have three kind of very
- 9 short data points that are anecdotes.
- 10 The one is, of course, the Mitch Singer one
- 11 that was included in our comments, talking about how
- 12 comfortable he was with the idea of being able to put
- 13 movies on his PC, presumably without authorization,
- 14 but maybe he did. I don't know.
- 15 The other one is when we actually -- when we
- 16 sent out an e-mail to -- we sent out an e-mail asking
- 17 people to tell -- to tell you that they wanted to be
- 18 able to do this. And we actually got -- I got an
- 19 e-mail back from someone taking me to task. I just
- 20 want to read three sentences: I rarely complain about
- 21 your articles. Usually you have verified the facts.
- 22 But in this case clearly you have not. It is not

- 1 illegal to break the lock on these DVDs.
- 2 This is someone who saw what we said and was
- 3 so mad about it they decided to write us in anger.
- 4 And the last thing is Darrell Issa,
- 5 Representative Darrell Issa did an "ask me anything"
- 6 at Reddit, which -- Reddit is an online community.
- 7 And so an "ask me anything" is when you go on there
- 8 and the community can ask you anything. You know,
- 9 it's a better or worse idea for various public
- 10 officials, but he decided to do it.
- 11 And -- you know, Darrell Issa is a
- 12 representative who I think we all can recognize is
- 13 someone who has a higher than average interest in
- 14 intellectual property. And so Reddit user Moondog
- 15 asked, As you sit on the subcommittee on intellectual
- 16 property, competition and the Internet, perhaps you
- 17 could explain why I can't legally make digital copies
- 18 of DVD for my personal use? Are you working to change
- 19 this?
- 20 And Representative Issa responded, You can,
- 21 in fact, make personal copies for your own use. A
- 22 good example would be ripping a DVD so you can play it

311 on your iPad. That use is not prohibited. MR. CARSON: So we have definitive authority 2 now, right? All right. Let's take a break from the questions and let's watch your presentation. 5 6 (Video played.) MR. CARSON: Anything you want to add with respect to that presentation? 9 MR. WILLIAMS: Well, I would just add that, you know, in some of the other panels on other 10 proposals, some of the services you saw there, it was 11 questioned whether they were adequate alternatives, 12 because it wasn't just about consuming content for 13 entertainment purposes; it was about repurposing it 15 for some new work. 16 And, here, we have the opposite. 17 proposal is people want to access digital copies of 18 content to enjoy it for entertainment purposes. 19 so all of the services there that provide that exact 20 service are an alternative. And I don't see any way 21 around that.

So I would say that, in contrast to some

- 1 other situations where there's a debate about
- 2 alternatives, here, the alternatives are clear.
- 3 MR. MARKS: I just had a couple of points.
- 4 One, there was -- Michael made a remark about, like
- 5 with Apple iTunes, that there was space shifting
- 6 involved there where you can do one click to shift to
- 7 a different device. And I just want to emphasize that
- 8 that is in the context of a license. The content
- 9 owners license the content to Apple. They give their
- 10 permission to allow for that space shifting. And the
- 11 entire ecosystem is protected by DRM.
- 12 And so part of what the panel has to do is
- 13 balance the damage to allowing circumventions of DRMs
- 14 and works being stripped of their protection versus
- 15 what the impact is on the purported fair use.
- 16 And in those space shifting situations that
- 17 are licensed by content owners and licensed with
- 18 increasing frequency, they satisfy the need for space
- 19 shifting that consumers want while still providing
- 20 adequate protection for the content.
- 21 And so these are alternatives that are here
- 22 that don't involve circumvention, and I think the

- 1 notion -- and the circumvention that would -- there's
- 2 no way you can grant an exemption to circumvent for
- 3 space shifting and prevent the rent, rip and return
- 4 phenomenon.
- 5 I would have not heard any notion of how that
- 6 sort of damage could be put aside, not even talking
- 7 about piracy, from than sort of exemption.
- And I sort of feel the argument about, well,
- 9 I own it, so, therefore, I get to add more
- 10 functionality to it as it comes along without having
- 11 to pay for it is really a specious argument. When
- 12 people bought DVDs, they knew they weren't allowed to
- 13 copy them. The devices that they had, as Bruce
- 14 referred to earlier, really made copying either
- 15 impractical or impossible.
- 16 Now that that's available doesn't mean you
- 17 get it for free. If I bought a cell phone that didn't
- 18 have texting and then Samsung came out with the next
- 19 version of the cell phone that had texting, it doesn't
- 20 mean I get that cell phone, the next Samsung version,
- 21 for free. And so I just think this -- the fact that I
- 22 own that particular copy means I get to make more or

- 1 get to do more functionally with that copy, I just
- 2 don't buy it.
- MR. WEINBERG: Let me address a few things.
- 4 First, just quickly, the reference I made to Apple
- 5 wasn't to this -- these other music services it has
- 6 rolled out, merely the fact that you can take any CD
- 7 and put it in iTunes and rip it to an MP3 file has
- 8 that no DRM. That's been built into iTunes since the
- 9 beginning, and there was no -- I cannot imagine that
- 10 they could have licensed that ability as sort of a
- 11 carte blanche situation. You know, that ability to do
- 12 that is part of that software. They do not have a
- 13 license for it unless I am very wrong on that. But
- 14 that's a fairly small point.
- 15 In terms of these services that were
- 16 mentioned here, I think there are -- I have two
- 17 reactions to them. First is that the selection on any
- 18 of these services, or even these services combined,
- 19 when compared to the universe of movies available on
- 20 DVD right now is incredibly limited. You're
- 21 talking -- this is anyone who has searched for a movie
- 22 on, you know, Netflix or Amazon Prime or any of these

- 1 has probably had this situation. But it's true, there
- 2 are all sorts of films that are not available.
- Again, we have not done a systemic study of
- 4 this at Public Knowledge, but I did, on Friday
- 5 afternoon, just send out a request to the staff and
- 6 said, tell me about movies that you have that are only
- 7 available on DVD.
- 8 And it shocked me -- it may have been because
- 9 we were all out of the office; the sinkhole had closed
- 10 us down -- but how quickly I got responses back. A
- 11 lot of people talked about movies that were kind of
- 12 foreign documentaries or about other foreign films. A
- 13 lot of TV shoes are only available on DVD.
- 14 Apparently, most anime is only available on DVD.
- 15 And I actually went home -- and I only own I
- 16 think 19 DVDs. I'm not an avid DVD collector. But
- 17 even the 19 films that I known, which I did not
- 18 purchase in order to get a good sample of movies only
- 19 available on DVD -- three of them were not available
- 20 in any other format.
- 21 So these services, even if they were
- 22 adequate, would not cover a huge corpus of DVDs and

- 1 motion pictures that are currently available and that
- 2 people own.
- But in terms of the ones that are, I think
- 4 these services are inadequate, first of all, because
- 5 they do essentially require you to repurchase things
- 6 you already own. And that's not something that I
- 7 believe that the Copyright Office should stand behind
- 8 and that the law actually allows.
- 9 And the other thing is that a lot of them
- 10 require Internet connections. And that's something
- 11 that is not going to work in a huge number of
- 12 situations. One is because, for better or worse --
- 13 and a huge part of what Public Knowledge does when
- 14 we're not here at the Copyright Office, is try to
- 15 increase access to high-speed broadband, and that
- 16 access just isn't what it should be in this country
- 17 right now.
- 18 And in so many cases that access is limited
- 19 by fairly restrictive data caps. And so it simply
- 20 isn't possible, even if you have that high-speed
- 21 connection, to download full movies with any sort of
- 22 regularity. You could do one, maybe two a month,

- 1 depending on what your connection is.
- 2 So these are not real substitutes for being
- 3 able to take media you already own and simply make a
- 4 copy. I think, ultimately, what we get back to with
- 5 this -- and the word that's been used a lot today and
- 6 yesterday and last week is balance. Right?
- 7 I mean, we could say, in order to space shift
- 8 a movie, you have to go and buy the movie -- the
- 9 rights to the movie from Universal Pictures for \$100
- 10 million. Right? Anything else is inadequate. But,
- 11 no, we say, okay, you could buy the DVD and then you
- 12 could also buy it again on iTunes and maybe you could
- 13 also pay for a Netflix subscription. We're talking
- 14 about kind of scale of balancing -- a balance of
- 15 hardships, whether or not this is worthwhile.
- 16 You know, is paying 2 or 3 or \$4 to copy a
- 17 DVD the same thing as being, you know, kicked out of
- 18 your house because the government wants to turn it
- 19 into a highway or something? No. We're working on a
- 20 completely different scale here.
- 21 But it is an inconvenience to consumers. And
- 22 so you balance that inconvenience against the cost of

- 1 that inconvenience to rights holders. And what I
- 2 haven't been able to figure out is what that is. I
- 3 haven't figured out how to finish the sentence, if the
- 4 copyright office allows people to make personal uses
- 5 of movies they already own, then the day after that
- 6 happens -- X, the bad thing. I cannot figure out what
- 7 harm is done by allowing people do this, so I cannot
- 8 figure out how much evidence to give you because I
- 9 don't understand what I'm balancing against.
- 10 Because the idea that it's going to increase
- 11 piracy is, frankly, ridiculous. Piracy exists. The
- 12 idea that people are going to become confused about
- 13 the legitimacy of using media is also ridiculous
- 14 because they already think this is the case, so we
- 15 live in that world already. The idea that we are
- 16 going to prevent rights holders from reselling movies
- 17 to people they already own, that they could already
- 18 make the use of but for this law doesn't seem valid to
- 19 me.
- 20 So I don't understand what we're balancing
- 21 the hardship on consumers against.
- 22 MR. WILLIAMS: If I could just quickly -- I

- 1 think, first, on this huge corpus of titles that
- 2 aren't available online but are on DVD, I don't think
- 3 there's one title in the record where that's
- 4 demonstrated. And I may have missed it but, if it's
- 5 in your comments, I missed it. And so I just don't
- 6 think that can be the basis for granting the
- 7 exemption.
- 8 On the question of, you know, what is the
- 9 harm, I think there's somewhat of a misunderstanding
- 10 or a misnomer going on. You know, when you buy a DVD,
- 11 you are buying the right to access that copy, but all
- 12 these great services that are being developed that
- 13 provide access in very different ways to multiple
- 14 copies, to streaming copies, to, you know, access in
- 15 multiple locations, that's a different offering, and
- 16 it's sold at a different price point. And the fact
- 17 that it's sold at a different price point enables my
- 18 clients to work with technology companies to develop
- 19 these services that benefit the consumer at the end of
- 20 the day.
- 21 And so I think the harm that you're unable to
- 22 identify is clear to me. It's that copyright owners

- 1 and their technology partners offer products in order
- 2 to recoup investments to fund the creation of new
- 3 products and new services. So without that ability,
- 4 the new services dry up.
- 5 MR. CARSON: Bruce.
- 6 MR. TURNBULL: Two points. First is that the
- 7 kind of -- as I said in my opening comments, the kind
- 8 of space shifting that is proposed here is exactly the
- 9 kind of space shifting that DVD CCA has spent a lot of
- 10 time and effort to -- to make sure that its licensees
- 11 are not able to do under the license. It is exactly
- 12 what Kaleidescape was doing with their product. And
- 13 the basis for the licensing -- the integrity of the
- 14 CSS licensing system depends on the ability to enforce
- 15 those terms. And an exemption of this kind would make
- 16 that very hard for us to do.
- 17 The second point is that -- Dean mentioned
- 18 the sort of rent -- or borrow, rip and return model.
- 19 There is absolutely no way to police or ensure in any
- 20 way that, in fact, the person who makes the copies
- 21 owns the DVD. The whole premise of the DMCA came
- 22 about when Hollywood was looking at -- it was at the

- 1 very time that CSS was being developed, that DVD was
- 2 being developed, and the concern was fundamentally
- 3 that you sell one copy of a work, and then everybody
- 4 in the world would be able to make copies, and you
- 5 wouldn't sell any more copies of the work.
- 6 And this is absolutely a concern with this
- 7 exemption request, that one DVD on the block and, all
- 8 of a sudden, you know, everybody has the right to make
- 9 a copy of it. And a lot of what was done -- I mean,
- 10 we used a mantra which some people criticized and had
- 11 its limitations, but the notion of CSS being a
- 12 technology that keeps honest people honest is, I
- 13 think, the reality in today's world where people who
- 14 are not honest can go on the Internet and find a way
- 15 to get around it. But people who are honest know, by
- 16 the barriers that are put in place by the technology,
- 17 they're not supposed to be doing this. You've
- 18 completely obliterated it if you grant this exemption.
- 19 MR. CARSON: So, Michael, when I read the
- 20 language of your proposed exemption, I think it does,
- 21 in fact, permit someone who rents a DVD or if I were
- 22 to borrow a DVD from Rob -- it's a lawfully made DVD

- 1 and it's lawfully acquired, so by its very terms, it
- 2 would allow people to make copies -- is that intended
- 3 and, if so, can you justify it?
- 4 MR. WEINBERG: So let me address the rent,
- 5 rip and return issue and answer that question. If,
- 6 when you made -- if you bought a DVD and you made a
- 7 copy with the intention of taking that DVD and
- 8 returning it, you would not be making the copy for a
- 9 personal use. You would be making the copy to defraud
- 10 the store you were returning the disc to --
- MR. CARSON: How so?
- 12 MR. WEINBERG: -- and you are outside the
- 13 bounds of the exemption.
- MR. CARSON: Oh, if you bought a copy and
- 15 then returned it?
- 16 MR. WEINBERG: Yeah, if you're -- doing this
- 17 entire process is for the purpose of defrauding the
- 18 company you're dealing with, you're outside of the
- 19 exemption. So --
- 20 MR. CARSON: Let's talk about rental or
- 21 borrowing.
- 22 MR. WEINBERG: The same situation. When

- 1 you're making the copy, right, the copy is a
- 2 non-commercial personal use. And if you're making
- 3 that copy with the intent of returning it or --
- 4 returning either the sale or returning the rental, I
- 5 think that the validity of that use becomes a problem
- 6 and it goes outside the scope of the exemption.
- 7 MR. CARSON: I don't follow that one bit.
- 8 It's non-commercial.
- 9 MR. WEINBERG: Right. Well, I would argue,
- 10 actually -- I would argue that it was commercial.
- 11 MR. CARSON: All right. I borrowed it from
- 12 Rob.
- 13 MR. WEINBERG: And let me actually answer
- 14 this a second way.
- MR. CARSON: Because the first way didn't
- 16 work, so you better.
- 17 MR. WEINBERG: Well, no, because -- it's not
- 18 because -- well, have you lawfully acquired -- I would
- 19 argue you haven't lawfully acquired it. You're
- 20 borrowing --
- 21 MR. CARSON: Sure. I rented it. If I rented
- 22 it, I lawfully acquired that copy.

- 1 MR. WEINBERG: Well, you haven't acquired
- 2 ownership of the copy.
- 3 MR. CARSON: You don't have the word
- 4 "ownership" in there. You say lawfully acquired. I
- 5 acquired it lawfully.
- 6 MR. WEINBERG: Okay. Then let me -- let me
- 7 answer this a different way. This is actually goes
- 8 back to keeping honest people honest.
- 9 Right now, anyone who wants -- anyone who has
- 10 bad intent to do this type of thing is doing it
- 11 already. The existence of the DMCA is not preventing
- 12 that person from acting in a bad way. And this is --
- 13 you know, this has come up in a couple of different --
- 14 of the hearings.
- 15 It is absolutely true that someone could
- 16 abuse this exemption, just as someone could abuse any
- 17 exemption. And it's really important to tailor them
- 18 as narrowly as possible to try and minimize that
- 19 abuse. You're never going to eliminate that abuse.
- I think the thing to really pay attention
- 21 to -- and this is why I said, you know, it's really
- 22 important to recognize the state of the world as it is

- 1 right now, not as we wish it to be.
- 2 Right now, the only people who are being
- 3 prevented from making these legitimate personal
- 4 copies -- and, you know, we're having an ongoing
- 5 conversation whether or not they're legitimate
- 6 personal copies, but let's assume, for this statement,
- 7 that they are legitimate -- the only people who are
- 8 doing that are people who really -- who are being
- 9 prevented by (sic) doing that by the DMCA are people
- 10 who really, really care about complying with every
- 11 element of the law.
- 12 And so is this -- is granting this exemption
- 13 going to open a floodgate of people who, before the
- 14 exemption, were not interested in renting, ripping and
- 15 returning, but now feel like it's been blessed by the
- 16 Copyright Office? That just strikes me as
- 17 unbelievably unlikely.
- 18 MR. CARSON: But if we use your language, we
- 19 are blessing that.
- 20 MR. WEINBERG: I don't know that you are
- 21 blessing that. I think you're blessing --
- MR. CARSON: But that's the language. Why

326 don't throw in -- let's assume everything you say is 2 true. 3 MR. WEINBERG: Okay. MR. CARSON: Why not throw in the language "when the person making the copy owns the copy from which the new copy is made"? 6 7 MR. WEINBERG: I would not object to that. MR. CARSON: All right. That's a step in the 9 right direction for sure. 10 MR. TURNBULL: I think you still have the problem of -- there's absolutely -- I mean, in the 11 other circumstances, in the documentary circumstances 12 13 you've got, you know, an ongoing industry program, you have a narrow group of people who are, you know, 15 working together on standards of, you know, fair use and who are conducting educational programs. 16 17 one of the professors talk about conducting seminars. 18 You're not going to conduct seminars for 19 200-and-whatever million people on -- on, you know, 20 how this is going to work. There's absolutely no way 21 to contain it.

MR. WILLIAMS: I would just reiterate, as I

- 1 said in my opening, that you still have the problem of
- 2 establishing that it's, in fact, non-infringing. And
- 3 they've admitted again today that the purpose is for
- 4 convenience and that the only other purpose is to save
- 5 a few dollars here and there, which I think you've
- 6 repeatedly said is not enough.
- 7 MR. CARSON: Right. And when I put the
- 8 proposition to him, I said, assuming everything else
- 9 you say is true.
- 10 MR. WILLIAMS: Okay.
- 11 MR. CARSON: So everything else is up in the
- 12 air.
- 13 Steve, do you have questions?
- MR. RUWE: I'd like your reaction, Michael,
- 15 to the notion that this is -- that this would destroy
- 16 the ability to have limited access models, or the
- 17 nature of DVD is a limited access model?
- 18 MR. WEINBERG: So I'd like to say two things
- 19 to that. First is we drew this exemption narrowly. I
- 20 think one of the things that has become clear in the
- 21 last couple of days, at least to me, is that movies
- 22 are being distributed on many -- in many different

- 1 ways by many different media, and this is not an
- 2 exemption that allows you to break the DRM on any
- 3 medium you want. Right. This is narrowly -- so it
- 4 does not -- I don't see how it impacts a Blu-Ray or
- 5 streaming because it's only tailored to DVD.
- 6 MR. RUWE: You said that if more unlocked
- 7 copy of entire works are made -- that's not the right
- 8 question. Basically, saying that this won't impact
- 9 the market for DVDs that are acquired already, that
- 10 basically -- so, therefore, it's not a detrimental
- 11 effect to the copyright owners. But wouldn't this
- 12 ability displace the offerings that they're making?
- 13 So would it have a negative impact?
- MR. WEINBERG: Again, I think that's where
- 15 you get back to, should we recognize these offerings
- 16 as offering that are legitimate replacements for --
- 17 MR. RUWE: But it is a negative impact.
- MR. WEINBERG: Well, it's only a negative
- 19 impact if you view that positive impact as really
- 20 existing, as legitimate.
- 21 MR. RUWE: Legitimate, but does it exist?
- MR. WEINBERG: Yeah, it exists. But, you

- 1 know, I mean, again, you could -- I think, if we were
- 2 talking about making clips available to teachers -- do
- 3 the clip services, do they charge per clip for
- 4 educational uses and things like that?
- 5 MR. WILLIAMS: No. These are free services
- 6 you can access online.
- 7 MR. WEINBERG: Right. So if those services
- 8 charged for each clip that educators wanted to use, it
- 9 would certainly be true that granting educators the
- 10 exemption would have a negative impact on those
- 11 services' ability to charge money. But I think the
- 12 larger question would be, is that a service that we
- 13 want to bless from a policy standpoint?
- MR. RUWE: I get your point. I think I have
- 15 the answer -- when you said that you don't understand
- 16 would the harm is, there is at least some identifiable
- 17 harm. You question the legitimacy of whether the
- 18 benefit is rightfully theirs, but you understand that
- 19 taking something away, that is a harm?
- 20 MR. WEINBERG: Again, you know, I think we're
- 21 getting trapped in semantics. I don't know that we
- 22 should recognize the benefit so you wouldn't recognize

330 the loss of it. But, yeah, I --2 MR. WILLIAMS: I would just say the cases I quoted earlier recognize that that's a legitimate market. MR. CARSON: Last opportunity for anyone on 5 the panel to make any point they wish. You don't have 6 7 to. 8 MR. WEINBERG: Again, I -- this is an 9 exemption that is designed to -- again, I'm open to 10 language narrowing it, as you suggested, but it is 11 designed to allow people, really targeted people, who 12 want to play by the rules, who have purchased DVDs --13 you know, these are not the pirates. These are the people who are paying for motion pictures who want to 14 15 make a legitimate use of it. And the only thing 16 preventing them from doing it is the existence of this 17 -- of the DMCA, which is why we have these exemptions.

- 18 So I would urge you to look at that as really
- 19 finding a way to reward these good actors. And it
- 20 really does not have an impact on any number of bad
- 21 actors that you could imagine, and probably already
- 22 exist and are functioning out in the world today.

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331
             MR. CARSON: Thank you. And with that, we
 1
   will be happy to say we're closing this hearing.
   Thank you very much.
             (Whereupon, at 5:24 p.m., the proceedings
 4
   were concluded.)
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1	CERTIFICATE OF COURT REPORTER
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