

Capital Reporting Company
U.S. Copyright Office Software-Enabled Products Study (5/18/2016)

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U.S. COPYRIGHT OFFICE

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SOFTWARE-ENABLED PRODUCTS STUDY

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WEDNESDAY, MAY 18, 2016

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The U.S. Copyright Office Software-Enabled

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Products Study met at 9:06 a.m., at the James Madison

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Memorial Building, West Dining Room, 101 Independence

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Avenue Southeast, Washington, D.C. 20540, when were

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present:

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P-R-E-S-E-N-T

2

JONATHAN BAND, Owners' Rights Initiative

3

JOHN BERGMAYER, Public Knowledge

4

ERIK BERTIN, United States Copyright Office

5

SHAUN J. BOCKERT, Blank Rome LLP

6

MICHELLE CHOE, United States Copyright Office

7

SY DAMLE, United States Copyright Office

8

BEN GOLANT, Entertainment Software Association

9

ERIC HARBESON, Music Library Association

10

KEITH KUPFERSCHMID, Copyright Alliance

11

AARON LOWE, Auto Care Association

12

CHRIS MOHR, Software & Information Industry

13

Association

14

AARON PERZANOWSKI, Case Western Reserve University

15

School of Law

16

JOHN RILEY, United States Copyright Office

17

CATHERINE ROWLAND, United States Copyright Office

18

STEVE TEPP, Global Intellectual Property Center,

19

U.S. Chamber of Commerce

20

CHRISTIAN TRONCOSO, BSA | The Software Alliance

21

JONATHAN ZUCK, ACT | The App Association

22

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19:06 a.m.

2P-R-O-C-E-E-D-I-N-G-S

3MR. DAMLE: Okay. Why don't we just go
4 ahead and get started? Our colleague can catch up.
5 So, good morning, everyone. Welcome to the first of
6 two roundtable hearings on the topic of copyright law
7 as it relates to software-enabled consumer products.
8 I'm Sy Damle. I'm Deputy General Counsel of the
9 Copyright Office. And I'll let my colleagues
10 introduce themselves.

11MS. ROWLAND: I'm Catie Rowland. I'm Senior
12 Advisor to the Register.

13MR. RILEY: I'm John Riley, Attorney-
14 Advisor.

15MS. CHOE: I'm Michelle Choe, Ringer Fellow.

16MR. DAMLE: So I'll just do a quick intro
17 and then we can start with the first panel. So, in
18 October, 2015, the Senate Judiciary Committee asked
19 the Copyright Office to study copyright issues related
20 to the spread of software in what it called everyday
21 products.

22In its letter, the Committee observed that

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1 digital technologies have revolutionized our world and
2 that copyrighted software is now essential to the
3 operation of our refrigerators, our cars, our farm
4 equipment, our wireless phones and virtually any other
5 device you can think of.

6 While crediting our intellectual property
7 laws for these developments, the Committee noted that
8 questions are being asked about how consumers can
9 lawfully use products that rely on software to
10 function. The Committee directed us to undertake a
11 comprehensive review of the role of copyright in this
12 area, while acknowledging that many of these issues
13 may relate to areas outside of copyright law.

14 But, so first of all, I'd like to thank the
15 Committee for this assignment and for its recognition
16 of the Office's longstanding interest and expertise in
17 the intersection of copyright law and technology.

18 Second, I'd like to thank all of the groups
19 and individuals that submitted written comments in
20 response to our Notice of Inquiry. We've reviewed
21 them all carefully and they were very helpful in
22 identifying the issues before us. And third, I'd like

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1 to thank all of you who agreed to participate in this
2 roundtable to help us take a deeper dive into these
3 issues.

4 So some of you are veterans of our
5 roundtables. So you know how this works. But for the
6 others, if you want to jump in on the conversation,
7 just turn your table tent upright and we'll call on
8 you, hopefully in some fair order. And just an
9 explanation of the microphones, in order to speak, you
10 have to press the button, the silver button, and the
11 light will turn red when it's on.

12 Only four people at once can have their
13 lights -- the microphones on. So after you're done
14 talking, if you could just please turn your mic off,
15 that would be great. And just a disclaimer that your
16 remarks are being recorded and will be transcribed and
17 made part of the public record and available on the
18 Copyright Office website, and the panel obviously is
19 being videotaped and the video will be made available
20 as well.

21 So we've got four panels lined up today,
22 three before lunch and one after lunch. And there'll

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1 be an opportunity for observer comments at the end.

2 And I hope we'll have a productive conversation today.

3 Our first panel is about a fairly general
4 topic. It's the proper role of copyright in
5 protecting software-enabled consumer products. And
6 the goal of the panel is to explore overarching issues
7 like the need for copyright protection in embedded
8 software, whether software in everyday products can be
9 distinguished from other types of software and the
10 need for interoperability.

11 But before I start off with the question,
12 we'd appreciate it if each of you could introduce
13 yourself and explain your affiliation for the record.
14 So, we'll start with you.

15 MR. BOCKERT: Hi. I'm Shaun Bockert, of
16 Blank Rome, and I'm here representing Dorman Products,
17 Inc., a supplier of new and remanufactured automotive
18 parts.

19 MR. TRONCOSO: Hi. I'm Christian Troncoso.
20 I'm here representing BSA | The Software Alliance.

21 MR. BERGMAYER: I'm John Bergmayer, and I'm
22 here for Public Knowledge.

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1 MR. GOLANT: Hi. Ben Golant, representing
2 the Entertainment Software Association, which
3 represents the computer and videogame industry.

4 MR. BAND: I'm Jonathan Band. I'm here on
5 behalf of the Owners' Rights Initiative.

6 MR. KUPFERSCHMID: Keith Kupferschmid, the
7 CEO of the Copyright Alliance. We represent 15,000
8 organizations and individuals who copyright is very,
9 very important to.

10 MR. LOWE: Aaron Lowe. I'm with the Auto
11 Care Association. We represent manufacturers,
12 distributors, retailers and installers of automotive
13 parts, independent of the vehicle manufacturers.

14 MR. TEPP: Steve Tepp, representing the
15 Global Intellectual Property Center of the U.S.
16 Chamber of Commerce.

17 MR. MOHR: Chris Mohr, Software and
18 Information Industry Association.

19 MR. ZUCK: Johnathan Zuck, from ACT | The
20 App Association.

21 MR. DAMLE: Great. Well, thanks very much.
22 So to start things off, the Committee asked us to

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1 examine the specific issue of copyright issues related
2 to software in what they called everyday products.
3 And we understand the Committee to have not asked us
4 for a more comprehensive review of copyright in
5 software generally.

6 So with that understanding, I think that
7 raises a key issue here, which is whether there are
8 problems in the marketplace that are specific to
9 software-enabled consumer devices and, if so, whether
10 those problems can be solved without affecting
11 copyright protection for software more generally. So
12 to sort of open off, if anyone wants to comment on
13 that issue, just tip your table tent up. Mr. Band?

14 MR. BAND: So I think it's easy to
15 distinguish software generally from software that is
16 embedded in products. And I -- it should be possible
17 to craft special rules for the software embedded in
18 products without necessarily implicating software
19 generally.

20 Where you're going to have definitional
21 issues is like what does it mean to be embedded or
22 sort of, a software-enabled product. I mean, that

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1 becomes a bit of a definitional issue because
2 sometimes you're talking about -- you might be talking
3 about firmware or you might be -- where really it is
4 fixed. But you also might be talking about programs
5 where you -- devices where you have to download the
6 programs or the user has to install the software in
7 some way to make it work.

8 So that becomes a bit of a trickier issue.
9 And then, the other issue that you need to decide is
10 to sort of distinguish between everyday products or
11 consumer products or other products. I'm not sure
12 that's a helpful distinction I think in 2016 where
13 there's really no difference between business uses,
14 commercial -- consumer uses, private uses and it's not
15 very helpful to try to make that distinction
16 inevitably an artificial one.

17 MR. DAMLE: And in terms of problems that
18 you see specifically with respect to -- I mean, sort
19 of the premise of the question was whether there are
20 problems that are specific to consumer devices or
21 whether the problems are really about software writ
22 large.

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1 MR. BAND: Well, I would say that there are
2 -- there are a specific set of issues that we know
3 now. Certainly, and we'll be getting into it more in
4 later panels. But the whole first-sale issue, the
5 ability to transfer products, the kinds of things that
6 we've talked about in our comments and I know some of
7 the other people have talked about the ability to sell
8 devices, repair devices and customize devices.

9 I mean, those kinds of things that are sort
10 of unique to when you're -- when you have the software
11 in the device, there are things that you want to do
12 with the device that you don't really care about the
13 software. I mean, the software just happens to be
14 there.

15 MR. DAMLE: So I'm not sure exactly who was
16 next. I think it was you, Mr. Troncoso. Yeah.

17 MR. TRONCOSO: I'd like to just pick up on
18 both the points that Jonathan raised, both in regards
19 to sort of the distinction between consumer devices or
20 everyday devices and devices that are not every day
21 and then on the embedded software issue. I think that
22 we agree on the first point with I think the vast

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1 majority of commenters that sort of distinguishing a
2 device as an everyday device is not a particularly
3 helpful designation because it's just a category
4 that's going to be constantly evolving.

5 Technology, 10 years ago, we would never
6 have imagined I think that the phones in our pockets
7 now have the computing power that sort of exceeds that
8 which NASA used to land people on the moon in the
9 '60s. So I don't think that's a helpful
10 classification.

11 And then, on the embedded software
12 classification, we don't think that that's
13 particularly useful either because, we've had embedded
14 software for decades, but I think the problems that
15 people are identifying that gave rise to this study
16 relate to the newer products, right?

17 We're not talking about calculators or
18 microwaves. We're talking about the newer
19 classification of products that are sort of -- are
20 internet-connected at all times, sort of the examples
21 that came up a lot in folks' comments related to
22 things like Nest. And the issue there is not sort of

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1 the embedded software. It's that the software has a
2 server sort of interaction and that the software is
3 more of a service than sort of just mere embedded
4 software.

5 So the issues that people are concerned
6 about, and rightly so, relate to how people's
7 relationships with these devices that involve a
8 continuous sort of interaction with servers. So I
9 think sort of trying to narrow the scope of this
10 inquiry merely to embedded software I don't think is
11 particularly helpful either.

12 MR. DAMLE: Well, so can I ask about -- so I
13 mean, there's the one area where the law arguably
14 draws this distinction -- draws a distinction is in
15 the Computer Rental Amendments Act, where it says a
16 computer program, which is embodied in a machine,
17 which cannot be copied.

18 And if you look at the legislative history -
19 - and we had a follow-on study -- what they were
20 talking about were I think some of the examples that
21 were in the Senate letter, which were automobiles,
22 like those kinds of consumer devices. Calculators was

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1 mentioned, which I think you mentioned as well.

2 Is that a viable distinction that we could
3 use for, if we were hypothetically to try to draw a
4 distinction for embedded software? Is your point that
5 that distinction that's in the law now really doesn't
6 work to solve any of the problems that anyone has
7 identified?

8 MR. TRONCOSO: Well, I think my point is
9 that I'm not really sure what problem specifically it
10 is that we're trying to address. And sort of merely -
11 - there's been a lot of -- sort of people have focused
12 a lot on the issue of licensing of software and sort
13 of -- a lot of the software that is embedded on our
14 consumer devices now is transferred by means of -- by
15 mechanism of a license as opposed to a sale.

16 That I think is probably a little bit
17 different than what -- when microwaves first came onto
18 the market in the '70s. So my point is that I think
19 it's very hard to address these issues without
20 disrupting the overall market for software writ large.

21 MR. DAMLE: A lot of people have their tents
22 up and I'm not -- oh okay, Mr. Lowe?

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1 MR. LOWE: So representing the automotive
2 parts area, we've had a long history of experience in
3 patent law with reverse engineering parts,
4 remanufacturing parts.

5 But the issue of copyright has arisen in a
6 much greater amount because of the fact the software
7 is on almost all automotive parts now that have been
8 built into the parts by the vehicle manufacturer,
9 which we think current copyright law does provide the
10 ability to do that. But the need for clarification,
11 because there are a lot of issues when you're
12 remanufacturing parts, where software needs to be
13 used.

14 We need to -- we look at software more as an
15 automotive part or function rather than the actual --
16 any creative thing. So, a windshield wiper might have
17 software embedded into it. It's taking the place of a
18 mechanical part that would have been on there before.
19 So we look at the whole issue of software as being
20 very close to being to an item that's mechanical and
21 you could reverse engineer, copy and use again to put
22 on a -- to make a copy of that part.

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1 And I think there's a lot of concern in our
2 industry because we're no longer -- the vehicle
3 manufacturers seem to view this in a different light.
4 And I think that's created a lot of maybe
5 misconceptions and concerns in our industry and also
6 has generated lawsuits in our industry of our
7 manufacturers.

8 So we really think our industry needs a lot
9 of clarification of some of these issues because they
10 are creating problems for those that reverse engineer
11 and build competitive parts and those who do service
12 on vehicles.

13 MR. DAMLE: So you mentioned lawsuits and
14 you also mentioned it in your written comments. Could
15 you explain exactly what those lawsuits involve,
16 whether they involve -- so I know that there's the
17 Autel litigation going on, which really is not
18 directly about the software. It's really about the --
19 I think it's a data compilation case basically. So
20 could you just sort of explain what kind of litigation
21 is going on?

22 MR. LOWE: Well, I can -- we have

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1 representatives here that are involved in that. I can
2 let them answer that question maybe more specifically.
3 But they involve the use of software on an aftermarket
4 part used on a car, whether they had the ability to --
5 because they needed to use software to integrate with
6 that vehicle, they had to copy it to do that. And I
7 think that's sort of more of the issue.

8 But I can -- we can let some -- another
9 representative talk about that more specifically. But
10 that's the concern of being able to use software to
11 make sure it's interoperable with a vehicle part. And
12 sometimes you have to copy it to make sure it does
13 that.

14 MR. DAMLE: And is it your view -- I mean,
15 you mentioned at the beginning that you thought the
16 current copyright doctrine could kind of address
17 those, but that you wanted clarification on that.

18 MR. LOWE: I think there needs to be more
19 clarification as to how it relates to the aftermarket
20 and replacement parts, reverse engineering and also
21 servicing of vehicles too.

22 MS. ROWLAND: Can I ask if you have a

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1 recommendation for this clarification?

2 MR. LOWE: I think we had it in our
3 testimony that we submitted. I think just
4 clarification about the use and I think we'll get into
5 these issues a lot more closely when we delve deeper
6 into it. But the ability to copy software, to use it
7 as an -- if you're not copying -- if it's non-
8 copyrightable, just a functional issue,
9 interoperability, issues like that.

10 MR. DAMLE: Mr. Zuck? Okay, great.

11 MR. ZUCK: Thanks, and thanks for having me
12 here for this discussion. I guess I just want to
13 start by saying that as a former software developer
14 and now a representative of software developers,
15 software is the thing in a lot of ways.

16 And I think it's easy to forget that the
17 huge strides in innovations in computing have come
18 predominately in software and that if you look at
19 something like a big sensor, like a radio array and
20 you look at SETI, the only reason we're going to be
21 able to filter the potential for extraterrestrial
22 intelligence is because of software. Just imagine if

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1 you had that functionality on C-SPAN. It would be a
2 lot easier to watch.

3 So the innovations in CAT scans and a lot of
4 machines come through software. And are regularly
5 updated, regardless of what your definition is of
6 embedded. It is a live and dynamic part of the
7 software, and central to the incredible advances in
8 software have been copyright protection. It's created
9 incentives to invest, et cetera. And if you changed
10 them, you will change those incentives, I think.

11 And so, you will change artificially the way
12 that people implement their technology in order to
13 find ways to get protection for what they're doing as
14 opposed to actually creating more innovation in a
15 space that's already highly innovative.

16 I represent app makers and increasingly apps
17 are finding their way into devices, whether it's
18 scales or cars or refrigerators, et cetera. And that
19 innovation I think is going to be critical. And I
20 think that making the distinction between everyday
21 use, I agree, is a very specious one. There are very
22 critical sensors are in things like Apple Watches and

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1 Microsoft Band, et cetera and that's going to be
2 something somebody uses every day. And yet, those are
3 health-related.

4 So I think there's a real incentives problem
5 and I think ultimately you're going to start to see a
6 problem around liability too. I've guaranteed to
7 protect somebody's data in a particular way and my
8 software is going to be critical to doing that. I'm
9 making assertions about the accuracy of a particular
10 device and software is going to be critical to making
11 those assertions real or not. These are issues of
12 compatibility and fragmentation of underlying
13 technology.

14 I'm an avid photographer and the firmware of
15 my camera is constantly being updated for a
16 compatibility with different lenses and things like
17 that. And yet, there are efforts to hack camera
18 firmware, to add functionality in parallel. And if
19 you do those things, you sort of do them at your own
20 risk because you're now out of the branch of the
21 enhancements that are coming from the manufacturer for
22 the different hardware that you want to use.

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1 And so, then it raises questions about, "who
2 do you call when your camera bricks up because you've
3 fiddled with it?" And I think that all of that is
4 important to keep in mind as context for the
5 discussion.

6 Getting to specifics, I fail to see that
7 there's been any real problem that's been identified
8 here that's specific to software embedded in devices.
9 It's all theoretical. It doesn't seem to be real.
10 And I think that the copyright system has provided a
11 set of kind of release valves already.

12 There's exceptions built into things like
13 the DMCA, et cetera, that are specifically designed
14 for interoperability and study, security, et cetera,
15 that have been used effectively. And to the extent
16 that there've been court cases around software being
17 used and copyright being used sort of illegitimately,
18 they've sort of fallen the way I think people believe
19 the way they should have.

20 So it seems to me that it's a system that's
21 working and there's no sign of a systemic problem,
22 that instead there's a system that works and we ought

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1 to be very cautious about changing it.

2 MR. DAMLE: Thank you, Mr. Zuck. I think
3 we'll go down this line and then back. How about
4 that? So, Mr. Golant?

5 MR. GOLANT: Thank you, and it's a pleasure
6 being back here at the Copyright Office and being part
7 of this conversation. I want to first echo what
8 Christian and Jonathan have said. I agree with their
9 assessments of the current environment. And I think
10 the broad point I want to make is at first, do no harm
11 to the copyright protection system for software under
12 the Copyright Act. That should be the ultimate goal
13 of this particular study.

14 And in terms of how do you differentiate, I
15 think in terms of what ESA members care about, whether
16 it be console manufacturers or handheld devices or
17 even the new VR -- virtual reality units -- every
18 piece of software has a function and you can't
19 differentiate one kind of software versus another
20 because they all interoperate. They all link
21 together. They all make that device that makes all
22 our consumers very, very happy.

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1 So there can't be any line drawing because
2 that would be regulatory chaos to say this kind of
3 software is not protected or this kind of software
4 should be treated differently. So the bottom line is
5 whatever our members care about, and that is having an
6 integrated unit that makes things go and makes the
7 games go, that's how we'd like to maintain it. Just
8 keep the protections under the Act for software the
9 way they are.

10 MR. DAMLE: And what's your view of the line
11 that's drawn in the Computer Rental Amendments Act?
12 Is that -- I mean, obviously that's about a very
13 specific issue. But there's both an exception for --
14 what they say -- computer program embodied in the
15 machine that can't be copied and then there's a
16 separate one actually for videogames that are also
17 embodied and can't be copied, so --

18 MR. GOLANT: Right. No, I know exactly what
19 you're talking about. But I can talk about that a
20 little bit later. But right now I'll keep to the
21 statements I just made.

22 MR. DAMLE: Okay. Mr. Bergmayer?

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1 MR. BERGMAYER: Yeah, thank you. I think
2 underlying the use of the phrase everyday products is
3 this notion that consumer products are different than,
4 say, large-scale commercial, industrial, agricultural
5 users and that consumers have particular expectations
6 and rights and protections that might not apply to a
7 factory buying a bunch of software-controlled CNC
8 machinery or something.

9 And I think that's probably totally true.
10 However, I don't think that copyright law is the right
11 way to draw those distinctions between classes of
12 users. You already have -- contract law already makes
13 distinctions between sophisticated users and
14 commercial users. I'm not an expert in this
15 commercial law stuff. But I'm pretty sure UCC or
16 something makes note of those particular classes.

17 And particularly, from a consumer group
18 perspective, something that concerns me is the notion
19 of using licenses to disclaim liability for defects in
20 products just because they're software and you can be
21 able to condition a software license on it, where you
22 couldn't with other ordinary consumer products.

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1 And I think consumer law already deals with
2 things like that. A lot of states have rules which
3 say that no matter how many times a manufacturer of a
4 product tries to disclaim a warranty, it's
5 ineffective. They have certain liabilities that are
6 defined by law and there's no getting around them.

7 Yet those protections typically wouldn't
8 apply to a sophisticated commercial buyer of
9 industrial machinery. And I think that's a totally
10 appropriate distinction to draw. And it's not really
11 necessary for copyright law to even be a part of that
12 discussion of how do you protect consumers versus how
13 do you not protect consumers.

14 And my concern is the potential use of
15 copyright law to try to whittle away some of those
16 rights where software vendors typically disclaim all
17 liability for any use whatsoever and they say that
18 their product is not fit for any purpose and things
19 like that, which maybe they might make sense in a pure
20 software context, although I'm skeptical.

21 But in a typical consumer product standpoint
22 where you have software that is controlling power

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1 tools or a rice cooker, I'm very skeptical of things
2 like that. But I don't think that it is copyright law
3 that should really be part of the discussion in terms
4 of those sorts of consumer protection.

5 MR. DAMLE: And is it your view that, to the
6 extent that there are licenses that do that, that the
7 state laws that you mentioned would apply to those
8 types of licenses?

9 MR. BERGMAYER: I think it is unknown
10 basically. I think questions like that would have to
11 be litigated to the question of whether a disclaimer
12 in a software license would have greater legal effect
13 than a typical warranty disclaimer, which in some
14 states might not have any legal effect.

15 I simply don't know and I think that we can
16 either start thinking about these issues now or we can
17 just wait for there to be decades of litigation in a
18 piecemeal fashion that might vary state by state. And
19 I think that's the direction we're heading towards
20 right now.

21 MR. DAMLE: And is it your sense that
22 Congress needs to do something to fix this or is this

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1 something that -- like what is --

2 MR. BERGMAYER: Well, in our comments, our
3 position is that if you simply reject certain
4 interpretations of copyright law that I think are
5 mistaken that have been adopted by some circuit
6 courts, it's not necessary.

7 However, certainly I would welcome
8 congressional clarification of any of the policy
9 points that we've identified if it was at all
10 feasible. But I think right now we're really not at
11 this stage of proposing specific legislation, so much
12 as identifying the fault lines.

13 MR. DAMLE: Okay. Thanks. And we can delve
14 into some of the licensing issues you mentioned in the
15 next panel.

16 MR. BERGMAYER: Sure.

17 MR. DAMLE: Mr. Bockert? Yeah.

18 MR. BOCKERT: So I guess to start, I'm sort
19 of confused by this resistance to drawing lines
20 because it seems like we do that all the time in the
21 law. We do it in copyright law, we do it in patent
22 law, and we do it in trademark law. And we're

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1 relatively comfortable with that.

2 And one thing that's coming up -- and I
3 don't think we dispute this -- is that maybe it's not
4 the "embedded" line where we should draw the
5 distinction, and maybe it's not the "everyday
6 products" line where we should draw the distinction.

7 But I would posit that software that serves
8 a primarily functional role in a product ought to be
9 treated differently. And the reasoning there is, when
10 you think about it in the context of patent, we have
11 these things that serve functional roles and there are
12 specific carve-outs, like the doctrine of repair and
13 all sorts of exemptions from the rights' owner's
14 exclusive rights.

15 And we think that several of those carve-
16 outs and exemptions should also apply in the context
17 of copyright.

18 MR. DAMLE: So when you say a primarily
19 functional role, I mean all software at some level is
20 functional. It's telling transistors to go to corner
21 zero and so I'm wondering, I just want to dig into
22 that a little more. Do you mean a mechanical role or

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1 do --

2 MR. BOCKERT: Sure. It's a fair question.
3 That's a perfect question. Aaron gave the example of
4 windshield wipers, right? So at one time, you had a
5 mechanism that decided how frequently a windshield
6 wiper should swish. I'm sure there's a technical term
7 for swishing, but I don't know it.

8 And that would be a device that would be
9 covered by patent, right? And auto part makers could
10 come in and they could figure out what's going on
11 there and they could figure out what their rights were
12 in order to replace it under patent law. But now,
13 that mechanical unit has been replaced entirely with
14 software. And so, now we've lost this aftermarket.
15 And ultimately, it's consumers who are struggling.

16 And that's not to say that we don't respect
17 copyright ownership and the strong incentives for
18 coding and creating software. But it's to say that we
19 also have competing incentives and ancillary markets
20 that we should also consider when making the law.

21 MR. DAMLE: And is it your sense -- I mean,
22 there's a lot of -- there's sort of established case

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1 law about interoperability and I know we're going to
2 talk about the fair use -- we have a fair use panel
3 coming up third I think. But just in general, is your
4 sense that the current case law about allowing things
5 like reverse engineering and intermediate copies for
6 reverse engineering and enabling interoperability, do
7 you think that case law is sort of sufficient to give
8 your clients comfort or is there more that needs to be
9 done there?

10 MR. BOCKERT: No, I think we need more. And
11 I don't think it's limited to interoperability. I
12 think it would be replacement as well.

13 MR. DAMLE: Okay. Thank you. Mr.
14 Kupferschmid?

15 MR. KUPFERSCHMID: Thank you. So actually
16 last week I was in San Francisco for the 512 section
17 roundtables. And it's interesting. If you look at
18 the record and the description of all the problems
19 that people are having with the DMCA notice-and-
20 takedown process and you compare that to the record
21 here, it's just night and day. I mean, there's very
22 little, if any, evidence of a problem. If you look

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1 through the examples and the written testimony, you'll
2 see a lot of "mays" and "coulds" and "mights." But
3 you don't really see the pure facts.

4 And to the extent there are pure facts and
5 examples, I think many of them are -- don't have
6 anything to do with the copyright law itself and have
7 to do with other things. And I think there are other
8 sessions where we'll delve into that more, although
9 I'm happy to do that now as well.

10 So in terms of this line drawing for
11 embedded software, that's one problem, in everyday
12 consumer products, that's another problem. I think
13 it's interesting that sort of the one person here that
14 suggested that, no, we should not have a problem with
15 any line drawing, then draws a line that encompasses
16 every single piece of software out there by calling it
17 just -- any software that has a functional role, which
18 as you point out, is the definition of sort of all
19 software.

20 So this line drawing is -- frankly is very
21 difficult, if not impossible in this particular
22 situation, both in terms of what embedded software

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1 means and what it means to be in an everyday consumer
2 product. And not only is it difficult, but it's not
3 helpful. We already hear complaints from the public
4 and users that copyright law is too complex.

5 And now, we're hearing suggestions that not
6 only should we -- well, should we make the copyright
7 law more complex by creating sort of a subcategory of
8 software and treat that differently than other types
9 of software, and then, we don't treat it differently
10 in all types of situations, just when it's in everyday
11 consumer products, whatever that means. So this is
12 just a hornet's nest of trying to draw that dividing
13 line, which I think is a real problem.

14 In terms of you've been asking this question
15 of others, so I'm going to preempt you and just try to
16 answer this myself, you mentioned the rental right
17 limitation and whether that's a viable distinction in
18 this particular instance.

19 But you also point out that Congress
20 considered that issue when it codified this rental
21 right limitation. It knew about the issue and decided
22 to limit it to the rental right, not apply it across

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1 the board. So I think that's significant, that
2 Congress did consider this issue and decided to apply
3 it in a particular fashion and in a particular manner.

4 And then, just lastly with regard to the
5 licensing issues, I'll pass on those because I'm also
6 on session, I think it's two, when we'll take those
7 up. So there were a host of issues that were raised
8 in that context. But I'll wait on that.

9 MR. DAMLE: Mr. Tepp?

10 MR. TEPP: Thanks very much. So one of the
11 prior commenters made the statement that, with regard
12 to certain products, the software just happens to be
13 there. And I don't think I could disagree any more
14 fundamentally with that statement.

15 Software is not just decoration. Software
16 makes the products more efficient. They make it
17 safer. This is why software has accounted for 15
18 percent of all U.S. labor productivity gains from 2004
19 to 2012. And I think what this points to is really
20 the fundamental policy question that underlies the
21 entire conversation today, which is, on the one hand,
22 we have a vibrant software industry.

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1 The United States unquestionably leads the
2 world in this field. Three-point-two percent of our
3 entire GDP is from the software industry. Exports of
4 software and related services have grown by 9 to 10
5 percent every year since 2006. We have something in
6 our system, and I think it's beyond any serious
7 question that copyright law is an important part of
8 that system, that has generated a vibrant, productive
9 industry that has helped the entire country innovate
10 and move forward into the modern era. So that's the
11 one hand.

12 On the other hand, as several of my co-
13 panelists have pointed out, the concerns that are
14 being raised are often hypothetical. There's some
15 anecdotes. Very little of it is traceable actually to
16 copyright law as the problem. So thus put, I think
17 it's fairly clear that there's a very high threshold
18 for demonstrating any need for -- as we'll get to
19 later in the day -- a fairly drastic remedy of
20 preempting contract terms. And I don't think that
21 threshold has been met.

22 I'll just -- coming back to the 117 rental

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1 issue that's come up a few times, I'll just add to
2 what Keith said a moment ago, with which I agree, that
3 that amendment was actually designed to protect
4 copyright in software. The rental of software was
5 leading to piracy. People would rent the, back then,
6 floppy disk, take it home, copy it and then return the
7 rental, the object of the rental.

8 To the extent that at the time that
9 amendment was passed, the ability to engage in that
10 type of piracy in other types of objects, where you
11 didn't have the floppy disk at your disposal, I think
12 is a significant part of why Congress made that
13 distinction. It was not a distinction designed to
14 denigrate the protection of software in other areas,
15 but to enhance its protection in areas where it was
16 the most vulnerable to piracy.

17 It's an open question as to going forward
18 whether piracy is becoming easier across the board.
19 But I think it's important to remember that origin of
20 that provision.

21 MR. DAMLE: Well, since you raised piracy, I
22 mean, I guess one question is what is -- are there

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1 concerns about piracy in these sort of -- in embedded
2 software and in circumstances sort of where that
3 exception to the consumer rental -- the Computer
4 Rental Amendments Act applies, where you have a Nest
5 thermostat which has software in it? Ordinarily, it'd
6 be pretty hard to copy the software off of that
7 device. So -- but you suggested maybe that's not the
8 case anymore. So I don't know if you wanted to
9 discuss that.

10 MR. TEPP: Well, I think we can all foresee
11 that as it's easier and easier to have in ordinary
12 consumers' hands the ability to access software that
13 is embedded in a thermostat, I would posit, then
14 piracy does I think become a greater concern.

15 MR. DAMLE: But piracy -- I mean, what would
16 be the purpose of such piracy, if you don't -- I mean
17 --

18 MR. TEPP: Well, if the software is the
19 distinguishing characteristic of a product that gives
20 it a competitive advantage and I wanted to compete in
21 that marketplace, then I would benefit from pirating
22 that software into a competing product, just one

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1 example.

2 MR. DAMLE: So it's more competitive --
3 competitors, rather than sort of mass market piracy?

4 MR. TEPP: There's so much innovation in
5 this space. I don't pretend to have the imagination
6 necessary to envision every possible scenario.

7 The fundamental case I'm making is that the
8 laws we have now have generated an incredibly
9 successful industry, that Congress has duly considered
10 where exceptions are necessary and appropriate and has
11 codified those into the statute and that there is not
12 evidence, not anywhere near enough evidence to suggest
13 a drastic remedy that's proposed.

14 I don't -- you asked the question about
15 piracy going forward. I was pointing out that that
16 was Congress' motivation in the past, in the section
17 117 amendment. To the extent you're asking me going
18 forward are there potentially piracy concerns, I don't
19 want to rule them out, because I don't know. I can
20 imagine a scenario where there could be.

21 MR. DAMLE: Okay. Thank you. Mr. Mohr, and
22 then we'll go over I think to Mr. Bergmayer, then Mr.

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1 Band, and then back to you, Mr. Zuck. Oh, sorry, and
2 then we'll end up with you. Okay.

3 MR. MOHR: Thank you. A few -- just I'll
4 try to be brief and not overly redundant. The first,
5 I do think it's, from our perspective, important to
6 look at this not from a framework of problems, but
7 frankly a framework of overwhelming success. And that
8 is namely that the application of copyright to
9 software has been enormously successful in spurring
10 innovation. And we've heard numbers and statistics
11 about that and we have -- we've put some in our filing
12 as well.

13 Not only has it been true for software
14 generally, but you're also seeing an enormous amount
15 of investment in the internet of things in terms of
16 venture capital. And we've cited some of that stuff
17 in our footnotes as well. And so, I guess when we
18 hear about these things, we say, okay, well, what's
19 the problem. And frankly, for us, there isn't one.
20 And there isn't one for a couple of reasons.

21 The first is that the copyright law has
22 enabled us to have both predictable and flexible

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1 business models. That licensing model has worked very
2 well. It's worked very well not only for our member
3 software companies, but we also see it potentially
4 working well in the internet of things.

5 As software in that space becomes more and
6 more like a service and as consumers develop ongoing
7 relationships and in some cases very specific
8 relationships with their software providers for a
9 variety of different kinds of data, it will make sense
10 to maintain the integrity of those products, that the
11 use of them be subject to particular terms. And
12 there's no reason that people, if they don't want to
13 be subject to those terms or if they don't want to
14 offer material subject to those terms, create a
15 different business model. There is nothing preventing
16 them from doing that.

17 So we don't see any useful distinction or
18 manageable distinction that can be drawn between
19 software in consumer products and any other type of
20 software. For us, that is a false premise.

21 The second thing, I know it's more in the
22 licensing area, that I want to say, but I was confused

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1 by something that one of our colleagues mentioned
2 before about the difference between the application of
3 commercial law to particular transactions and when
4 things go wrong. And I don't think -- there is a big
5 difference between licensing and product liability.
6 Product liability is a tort and it's a tort under
7 state law.

8 So if something causes a -- for example, a
9 car to crash, the liability will be found in tort. It
10 is not going to be governed by the terms of a license
11 agreement because that's -- I mean, that comes out of
12 the *Bloomfield Motors* case from the first year of law
13 school. I think that's a very different type of
14 analysis.

15 So trying to mix those kind of horribles
16 together -- I mean, look, years ago, when we were
17 dealing with the aftermath of *ProCD* and the world was
18 going to collapse around us, we heard very similar
19 claims about this. And it simply didn't happen.

20 But this is one of the -- this was one of
21 the areas that was mentioned back then, and I think
22 the point is equally applicable today, is that where

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1 there would be product liability law that applied, in
2 the absence of privity, there's nothing -- there isn't
3 much that a software license can do to protect that.

4 MR. DAMLE: Okay. Thank you. Mr.
5 Bergmayer, I think you were next.

6 MR. BERGMAYER: Sure. So something that
7 just relates to the functionality discussion a little
8 bit earlier, and I'll use the windshield wiper example
9 that keeps coming up because I just recently replaced
10 a windshield wiper in my car and it was a very
11 complicated, mechanical contrivance. It was really
12 difficult to get right. And I can imagine, yeah, it's
13 replaced with a much simpler part that's just a
14 microcontroller with some software connected to some
15 motors.

16 And I think the question is I bought an
17 aftermarket windshield wiper armature replacement
18 thing. Could I buy a replacement microcontroller with
19 different software written by someone else?

20 And I think when you have software that is
21 of such a simple character, you end up with almost
22 merger doctrine issues where if someone else re-

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1 implemented software that did the exact same thing in
2 terms of controlling the arms in a particular way, it
3 very might well be the case that looking at the
4 original software and someone's independently created
5 software that does the same functions in terms of
6 controlling motors, you might see substantial
7 similarity. And yet, at a certain point, you have to
8 have an idea-expression dichotomy issue because you
9 can't copyright the only -- or the most efficient way
10 to accomplish a task.

11 Similarly, if I -- in a new programming
12 language - say, I'm the first person to come up with
13 the most efficient way to implement a particular
14 sorting algorithm, that might be very creative of me.
15 But that's not subject to copyright because that is an
16 idea-expression dichotomy question.

17 So I think there are existing copyright law
18 doctrines that have been around for a really long time
19 that at least when it comes to the very simple
20 software that is just sort of replacing a mechanical
21 part could already apply to at least prevent the use
22 of copyright to limit competition by people making

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1 other competing products. And I think that is just
2 something that people need to keep in mind when
3 considering these things.

4 MR. DAMLE: Thank you. Mr. Band?

5 MR. BAND: So some folks on the other side
6 of the room have said repeatedly that there is no
7 evidence. Now, simply saying that there is no
8 evidence doesn't make all the evidence that's already
9 been submitted in the record vanish. You have to
10 actually look at what's in the record.

11 And so, we've had Mr. Lowe submit comments
12 on behalf of thousands of auto repair folks who deal
13 with this problem of replacement parts and exactly the
14 kinds of things we're talking about here and the
15 competition in the aftermarket and diagnostic
16 software, all of these related issues. They deal with
17 that problem every day.

18 I represent -- within the Owners' Rights
19 Initiative are two trade associations representing
20 computer resellers and independent repair providers.
21 And they deal with this issue every single day. The
22 Cisco frequently answered -- frequently asked

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1 questions specifically talks about resale and
2 restrictions that they place on resale of their
3 servers because of the software. And they cite *Vernor*
4 *v. Autodesk*. It's in their frequently asked
5 questions. It's not an occasionally asked question.
6 It's a frequently asked question, which indicates that
7 people who want to buy these materials frequently ask
8 that question. HP has the same thing in their
9 frequently asked questions.

10 So this is -- and the issue of independent -
11 - the issue of competition in the aftermarket has been
12 an issue, an ongoing issue competitively in the
13 computer industry from the beginning. And the
14 independent software -- independent maintenance and
15 repair, it's been a big issue from the beginning. And
16 117 was amended precisely to deal with that. I mean,
17 it's a constant struggle.

18 Now, in the competitive struggle in
19 Congress, typically the original equipment
20 manufacturers have a lot more lobbying power than the
21 independent repair folks. But that doesn't mean that
22 the outcome that they are pushing for and have pushed

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1 for is necessarily from a policy perspective the
2 optimal outcome. I mean, the point is that, again,
3 this is an issue.

4 Right now, we see it very much in the
5 computer area and in the automotive area. And it's
6 important for you all to be focusing on this now
7 because very soon, it's going to be applying
8 everywhere else.

9 MR. DAMLE: So if I could just defend
10 Congress, since I have representatives from Congress
11 sitting in the audience, I mean, they did -- just to
12 push back on that point, they did -- after MAI, they
13 did issue an amendment to section 117 to address that
14 specifically out of concern for the independent repair
15 -- to sort of facilitate independent repair, to deal
16 with that particular issue.

17 And so, I think if there is evidence that
18 there's that kind of -- that sort of problem happening
19 today, I think -- I imagine we would be and Congress
20 would be willing to examine that. But so that takes
21 me to the next point, which is I think it's one thing
22 to say that there are issues, and there obviously are

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1 lots of difficult issues in copyright law and
2 determining whether something is fair use or not is a
3 difficult issue.

4 And so, I'm just wondering whether you have
5 sort of specific examples of either threats of
6 litigation or litigation or sort of areas where it's
7 like clear that that's something that an independent
8 repair person or someone who's making an aftermarket
9 part or something they want to do is being prevented
10 from doing because of current copyright law.

11 MR. BAND: Well, the folks within the ORI
12 report that they are constantly being pushed around by
13 the large computer manufacturers, that, more
14 importantly, their customers are being told not to get
15 the services and not to buy used replacement parts and
16 so forth from my people.

17 And that's what inspired our group to work
18 with Congressman Farenthold in support of YODA. I
19 mean, that's -- that was a very specific bill that is
20 responding to a specific problem that our members say
21 that they encounter all the time. I don't think
22 there's been a complaint filed that I'm aware of. But

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1 it is a constant issue.

2 MR. DAMLE: And do you have -- so I mean, I
3 looked at the -- I looked at the licenses that you
4 cited and sort of looked up, for example, NetApp. And
5 NetApp is an enterprise data storage company. Cisco,
6 as far as I could tell, applies those sorts of
7 restrictive license terms on its enterprise-level
8 devices.

9 And I couldn't -- what I couldn't find from
10 your submission was an example of sort of a consumer-
11 level device or even a small business-level device
12 where that had these sorts of issues. And I assumed
13 that you would concede in the sort of business-to-
14 business context there's much more sort of a balance
15 of bargaining power.

16 And so, I think what one of our concerns is,
17 again, to draw the distinction, I think that it's
18 appropriate -- and the law does, as Mr. Bergmayer
19 said, draws a distinction between enforcing contracts
20 between sort of big -- between two businesses and
21 between a business and a consumer where it's a click-
22 through contract of adhesion, if you will, right?

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1 So I think that -- so I'm just curious
2 whether you have examples of sort of consumer-level
3 devices that have that type of problem.

4 MR. BAND: Well, even when it says
5 enterprise-level, I mean, there are different kinds of
6 enterprises. You might have an enterprise of 20
7 people or 30 people. And so, they might have a server
8 for that level of enterprise. But it's still not --
9 we're not talking about a 100,000-person company
10 dealing with another 100,000-person company.

11 And again, we see this -- this is throughout
12 the history of the computer industry. You have very
13 unequal bargaining power. And you really can't
14 bargain with Cisco or HP or NetApp, if you're a
15 relatively -- even a small- to medium-sized business.
16 And some of the products that the ORI members deal
17 with are also like -- it could be equipment like this,
18 like these speakers. And then, these microphones or
19 telephones.

20 And so, you might have a small office or you
21 might have 10 telephones or five telephones. And
22 again, you have very little -- very unequal bargaining

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1 strength between the small business and the equipment
2 manufacturer.

3 MR. DAMLE: Mr. Bockert? Sorry.

4 MR. BOCKERT: My client, Dorman Products, is
5 facing a very real lawsuit alleging copyright
6 infringement. And they're having to defend that. So
7 this isn't sort of theoretical and it's not
8 hypothetical. It's very real. And I can't go into
9 all of the details in the case and foreshadow
10 defenses. But the idea is that this case --

11 MR. DAMLE: Sorry. Has a complaint been
12 filed?

13 MR. BOCKERT: Yes, a complaint has been
14 filed.

15 MR. DAMLE: Okay. I think we'd be
16 interested in seeing it, if you have the docket cite.
17 We'd be interested in seeing that.

18 MR. BOCKERT: I can send that up.

19 MR. DAMLE: Yeah. That'd be great.

20 MR. BOCKERT: Sure. So -- we obviously
21 think we have very clear defenses that existing
22 copyright law allows us to do what it is that we've

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1 been doing. But we think that this could be clearer,
2 specifically focusing on section 117, which everyone
3 is talking about.

4 I have the utmost respect for the drafters
5 in Congress, but it's very difficult to read section
6 117(c) to an auto mechanic and have him or her
7 understand it in a clear way and how it applies to the
8 business.

9 And so, when you have those difficulties, it
10 creates chilling effects in innovation. And it's not
11 only Dorman who experiences this. I get phone calls
12 from several clients who are calling and saying, "hey,
13 I have this idea, can I do this?" And I have to say,
14 well, here are the limitations and here are the things
15 that you have to consider under copyright.

16 And a lot of them walk away and don't end up
17 creating whatever business it is that they had in
18 mind. Keeping all of this in mind, a lot of people
19 are talking about the success of the software
20 industry. I don't think anyone would dispute that.

21 But I do think that there is some assumption
22 there that the success of the software industry is

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1 based entirely on the strength of its protections
2 under copyright, when historically a lot of the
3 software protections were based under patent law.

4 And patent law has very clear exceptions for
5 things that you're allowed to do, like the doctrine of
6 repair. We're positing that some of those exceptions
7 should more clearly apply in the context of copyright
8 law.

9 MR. DAMLE: Okay. We're running short on
10 time. So I'm just going to run down this side and
11 then we'll wrap up this panel. Mr. Kupferschmid?

12 MR. KUPFERSCHMID: So I'll be brief. I
13 mean, just to throw it back in Jonathan's lap here I
14 suppose a little bit is that he said just because you
15 say the problems don't exist doesn't mean that they
16 don't exist. Well, the opposite, just because you say
17 there are problems doesn't mean there are problems.
18 And especially -- and I do --

19 MR. BAND: I'll remember that the next time
20 you guys submit that we need to change the Copyright
21 Act.

22 MR. KUPFERSCHMID: Okay. I'll watch for

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1 your tent to go up next time too. But anyway, so --
2 and the problems that -- or the issues that have been
3 raised here, the concerns that have been raised here,
4 a lot of them have very little, if anything, to do
5 with copyright.

6 With deference to Mr. Bockert, is it --
7 Bockert -- I don't recall reading the case and I would
8 also love to take a look at the case. But it seems
9 like it has not been adjudicated yet. So the courts
10 may come to the -- obviously to the right decision at
11 the end of the day.

12 It is worth mentioning that there is at last
13 one, probably many, different voluntary agreements
14 having to do with sort of a right of repair, at least
15 in the automotive industry. So it is worth mentioning
16 that there are groups that can come together and
17 address these issues outside of Congress or other
18 places.

19 MR. DAMLE: Okay. Thank you. I'm not sure.
20 Mr. Lowe, are you -- yeah, okay, Mr. Lowe and then Mr.
21 Tepp.

22 MR. LOWE: No. I wanted to clarify. First

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1 of all, the case is real and we're fully aware of the
2 case that Mr. Bockert brought up. But there's every
3 day when companies are looking at parts now, they're
4 looking at software-enabled parts. Almost every day
5 they have to make a decision whether to reverse
6 engineer it, whether they can innovate with the
7 development of that part. And every day, that
8 decision is affected by copyright law.

9 So there are very real effects that are
10 going on because of this field. And the need to
11 clarify the right to repair in this software copyright
12 area because whether -- we all say software copyright
13 is fine, there are no problems -- well, this is an
14 area in automotive, when you purchased a car, you own
15 that car and you're able to modify it, to do work on
16 that car, to repair it. And that's been a
17 longstanding standard.

18 But now, with the software now implemented
19 on almost every part and component on a car, that's
20 now becoming more difficult and more questionable.
21 And so, what we're looking for is more clarification
22 in that area to make sure that you -- when you do want

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1 to work on a part that there is a certain standard
2 that we've gotten used to in the patent area is also
3 applied in the copyright area.

4 MR. DAMLE: Mr. Tepp?

5 MR. TEPP: Thank you. So, the copyright law
6 already has clear jurisprudence and codification by
7 Congress of reverse engineering for purposes of
8 interoperability. So, and the Chamber is certainly
9 not here to take issue with that. And the Copyright
10 Office has famously issued some 1201 rulings that are
11 in furtherance of that goal. So I think that ought
12 not be lost in question of replacement parts.

13 In terms of overall evidentiary issues,
14 again, even the cases that have been brought up,
15 you've -- the panel this morning has distinguished
16 from copyright law. Respectfully, a frequently asked
17 question is perhaps not a scientific designation of
18 how often an issue may arise.

19 To the extent that the concern is, oh my
20 gosh, we have to think about copyright law when we do
21 our business -- well, yes. People have legal property
22 rights that ought not be infringed, particularly when

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1 there are means available under the statute to engage
2 in repair, to engage in reverse engineering.

3 And none of this justifies, as we'll get to
4 later in the discussion, I suppose, this notion of
5 wholesale preemption of contract terms, which is
6 anathema to the free market system that copyright is
7 designed to work within.

8 And just coming back finally to the piracy
9 question you asked earlier, the one point that
10 occurred to me that I should have made is that there
11 is a clear and present issue with piracy, particularly
12 in the area where the device that's run by software is
13 the device that helps perform and display other forms
14 of copyrighted works, whether they be music, movies,
15 whatnot. Absolutely, in that context, you have the
16 capacity for piracy of either the software and/or the
17 works that the device is designed to perform.

18 MR. DAMLE: Mr. Zuck?

19 MR. ZUCK: Thanks. I'm not a lawyer and so
20 probably the least interested in reading the
21 complaint. But as a software developer, what I've
22 seen historically is there's always been a kind of

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1 tension between intellectual property and
2 commoditization. And that tension's been interesting
3 in a lot of ways, that the argument is made that
4 eventual commoditization actually leads to innovation
5 at some level, now that the thing you were protecting
6 you don't have any more and you now have to re-
7 innovate, et cetera.

8 Well, there's also historical precedent
9 that's sort of like -- commoditization too soon can
10 undermine investment in innovation. But I think the
11 key thing here, and this will come up over and over
12 again, is that we should never confuse the two.
13 Commoditization is not innovation. And very often,
14 innovation is happening here. Commoditization is
15 happening elsewhere.

16 And so, to look at commoditization as an
17 innate good or specifically as innovation I think is a
18 frightening characteristic for it because it's that
19 innovation that I think we need to make sure we're
20 protecting and that copyright was put in place to
21 protect and be very cautious of things that sort of
22 institutionalizes commoditization too early in a

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1 product cycle.

2 MR. DAMLE: Okay. Thank you. Mr. Troncoso,
3 do you want to have the last word?

4 MR. TRONCOSO: Thank you. I think one of
5 the important questions that Chairman Grassley and
6 Senator Leahy asked in their letter that prompted this
7 study is for this -- for you guys to look into what
8 provisions of the Copyright Act sort of apply and how
9 they apply now in this era where there's ubiquitous
10 software in our devices.

11 And one of the things we've heard repeatedly
12 here on this panel is that there seems to be some
13 misunderstanding, at least among some folks, about how
14 existing safeguards in the Copyright Act might
15 actually be there and might be able to resolve some of
16 the problems and some of the tensions that we're
17 experiencing. So I think it would be helpful for you
18 guys in this study to talk about that, talk about how
19 -- I know that 1201 is sort of a four-letter word in
20 this panel -- we're not supposed to talk about it --
21 but how the triennial rulemaking is there to sort of
22 provide sort of a release on the tensions that might

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1 build on sort of right to repair-like issues and also
2 how fair use, cases like *Connectix* and *Sega v.*
3 *Accolade* apply to permit reverse engineering for
4 purposes of interoperability.

5 MR. DAMLE: So do you think it's appropriate
6 for the public to look at our 1201 rulemakings as
7 guidance with respect to questions about 117, fair
8 use, that sort of thing?

9 MR. TRONCOSO: I'm not sure -- I'm not sure
10 if I'd be prepared to go there. But --

11 MR. DAMLE: Okay, just curious. All right.
12 Well, that wraps up our first panel. Thanks very
13 much. What we'll do is we'll take a -- if we can take
14 a 10-minute break, that would get us back -- right
15 back on schedule. So we'll be back here at 10:15 for
16 session two. Thanks.

17 (Whereupon, the foregoing went off the
18 record at 10:07 a.m., and went back on the record
19 at 10:18 a.m.)

20 MR. DAMLE: So we're having some feedback
21 here.

22 MS. CHOE: Hi, everyone. Welcome back. So

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1 we're going to move on to the second panel, which is
2 on ownership and contractual issues. The goal of this
3 panel is to explore the state of contract law vis-à-
4 vis software-enabled everyday products and how
5 contracts such as end-user license agreements impact
6 investment in and the dissemination and use of
7 everyday products, including whether any legislative
8 action is necessary.

9 So before we start, we should first
10 introduce the new member to our section.

11 MR. BERTIN: Good morning. I'm Erik Bertin.
12 I'm the Deputy Director for Registration here at the
13 Copyright Office.

14 MS. CHOE: And we should also have the new
15 members on the panel introduce themselves and their
16 affiliations. So if we could start with you, Mr.
17 Perzanowski?

18 MR. PERZANOWSKI: Yeah. My name is Aaron
19 Perzanowski. I'm a professor of law at Case Western
20 Reserve University in Cleveland, Ohio. I've been
21 thinking and writing about issues concerning consumer
22 ownership of digital goods for a long time.

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1 MS. CHOE: And Mr. Harbeson?

2 MR. HARBESON: I'm Eric Harbeson, from the
3 Music Library Association.

4 MS. CHOE: Okay, great. Thank you. So
5 after reading the comments we've received in this
6 area, we've identified two areas of particular
7 interest. First, what are the legal or practical
8 rationales for employing end-user license agreements
9 or other types of agreements in the context of
10 software-enabled consumer products?

11 And second, are such agreements having any
12 practical effect in the marketplace in terms of
13 limiting the availability of exceptions and
14 limitations under the Copyright Act. So if anyone
15 would like to start addressing one or both of those
16 issues, that'd be great. So Mr. Bergmayer?

17 MR. BERGMAYER: Yeah. So I think one of the
18 issues with software in particular is that where it
19 goes beyond contract law is that if the seller of a
20 software product or a software-enabled product is in
21 some way saying that you never -- the buyer never
22 actually owns the copy, that doesn't just affect the

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1 relationship between the seller and the buyer.

2 It has downstream effects because the first-
3 sale doctrine then never kicks in and people who are
4 not privy to the sales contract between the seller and
5 the buyer would also be infringing copyright for later
6 distribution. So I think that is one of the
7 particularly dangerous areas with the notion that a
8 seller of a software product can reserve ownership.

9 And also, I think you'll see in a lot of the
10 comments, there was agreement that the law doesn't
11 need to change. But different people have a different
12 idea of what the law means. When I say the law
13 doesn't need to change, I think that these parallel
14 doctrines that have come up, where software vendors
15 uniquely among all copyright holders have the ability
16 to sell you something and say that they didn't really
17 sell it to you, that has no basis in a statute. It
18 defies common sense and legal logic.

19 And yet, we've allowed it to grow up and the
20 software industry to sort of arrange its business
21 models around this legal concept where, in other
22 areas, plenty of other sellers of copyrighted products

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1 have tried to do the exact same thing and they've been
2 smacked down by the courts.

3 The foundational first-sale case is about
4 the attempt to withhold rights, resale rights from
5 customers. The people who have given people sample
6 music have tried to say, well, you can't resell this
7 because you don't really own it and courts have taken
8 the very commonsense view that if you're transferring
9 a physical item to someone for keeps, that means they
10 own it and just sort of boilerplate language, any
11 sales agreement between a seller and a buyer can't
12 really change that basic economic reality.

13 And it -- this is the issue that sort of got
14 me involved in this area. I first started looking
15 about this stuff in the *Vernor* case, which I think
16 came out the wrong way. And I think if we just
17 revisit these doctrines, which are judge-made and have
18 no basis in the statute, we can undo a lot of the real
19 and potential consumer harm.

20 MR. DAMLE: So can I ask -- I mean, so when
21 I reread *Vernor*, I mean, *Vernor* is based on an older
22 case from 1977 called *Wise*, which didn't involve

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1 software. It involved motion picture prints. And
2 what the court basically said there was -- I mean, it
3 reached -- it sort of reversed the convictions, I
4 think, in that case on other grounds.

5 But it did say that -- the court discussed
6 sort of VIP prints of motion pictures, like *Sting* and
7 *Funny Girl* and said that those could be licensed. And
8 so, so I'm just wondering what you say about -- I
9 mean, just to your point that this is something that's
10 unique to software, I'm just wondering whether you
11 could sort of address why it's a reasoning.

12 MR. BERGMAYER: Sure. There absolutely can
13 be situations where I sort of transfer physical
14 custody of a physical item to a buyer or another
15 person where they don't really own it. But I think
16 there have to be facts that support that. It can't
17 just be a routine, like I just sort of add it to every
18 single thing that I sell.

19 There has to be some sort of verifiable
20 requirement that they destroy it after use or that
21 they return it. Or there has to be some sort of
22 reality to that. It can't just be something that any

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1 time anyone buys a consumer product -- the example
2 that I pulled out in our comments, but I could have
3 found it in probably any product, is the Nest
4 thermostat license, which simultaneously says that
5 you, the buyer, don't really own this.

6 You don't own the copy of the software,
7 which is a physical thing because copies are always
8 material objects. But it also describes you as the
9 buyer and it's just contradictory. And it's just put
10 there as a matter of course in all software that is
11 sold to consumers.

12 And I think that's the problem, not that
13 there might be exceptional circumstances where if
14 you're giving it back or if you're just really renting
15 it or it's in a unique market that has particular
16 characteristics like film prints. But I think it is
17 the universalization of this -- what should be an
18 exceptional circumstance -- that's the problem.

19 MR. DAMLE: So just a couple of points that
20 I'm just curious about. So I mean, in *Vernor*, there
21 was -- as I recall, there was a requirement that the
22 purchaser destroy the copies when they -- the original

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1 copies when they purchased the upgrades. So there was
2 -- the court did mention that sort of restriction,
3 which seems to me similar to what was at issue in --

4 MR. BERGMAYER: Yeah. But at the same time,
5 you can't just say that you're required, but there's
6 no actual enforcement. I mean, as far as I know, if
7 you just say that just adding a requirement of
8 destruction to a contract is enough to get you into
9 that special circumstance, then people would just add
10 that every time and it won't really be enforced. I
11 think the point is that there has to be an economic
12 reality that controls whether or not a sale has taken
13 place, not merely words.

14 MR. DAMLE: So just a follow-up question, I
15 wonder if you -- so what the -- what the software
16 folks say is that, well, if we can't license it, then
17 things like academic versions of software become
18 unviable, where you sell someone a \$149 copy of
19 Microsoft Word, with the understanding that they're
20 not going to use it for commercial purposes. If you
21 don't have some sort of license that enforces that --

22 MR. BERGMAYER: Two things --

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1 MR. DAMLE: Right.

2 MR. BERGMAYER: So two things. You can
3 still have a contract, just the contract only applies
4 to the person who entered into the contract and it
5 doesn't apply to all potential downstream users. So
6 if you do sell something to someone at a discount and
7 then they're just up and reselling it into the general
8 market, you can use contract law to go after them.
9 But I think it would be inappropriate to go five
10 owners down the line and start using copyright against
11 people who have no idea, never entered into that
12 contract.

13 And second, yes, there are certain business
14 models that might be easier for sellers if they have
15 certain legal rights. But that doesn't -- that's not
16 a slam-dunk argument that those rights should exist.
17 And in fact, in other areas like books and textbooks,
18 we do have special academic editions or pricing. And
19 it seems to work just fine.

20 There is no concept that when you buy a
21 textbook, you don't really own it. And in fact, I
22 think anyone who used to be a student thinks it's

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1 great that you can buy a used textbook or sell your
2 textbook when you're done with it. And I just don't
3 see why we need special software-specific doctrines
4 except when they are specifically confided by statute,
5 or this notion that you don't own a thing that you
6 bought does not come from the statute. That is
7 entirely a judge-made doctrine.

8 MS. CHOE: Well, why don't we move on to Mr.
9 Band?

10 MR. BAND: Thank you. So for ORI, where
11 this -- the relationship of contract to this issue is
12 most obvious is the first-sale doctrine, which applies
13 to owners of copies. And so, if you have software
14 embedded in a device and the software is just licensed
15 but not sold, then the first-sale doctrine arguably
16 does not apply to that piece of software. And so, you
17 can't transfer the software when you're transferring
18 the rest of the good.

19 And so, that makes it difficult to sell the
20 product in a secondary market. And so, that's really
21 where we see that issue. And as John said the
22 economic realities of the transaction are that when

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1 you buy the device, you're buying the copy of the
2 software in it. You're not expected to return it.

3 And it seems obvious that if you're able to
4 keep the device for its useful life, let's say if it's
5 10 years, but let's say, then if you want to, after
6 five years, sell it to someone else who could benefit
7 from the other five years, then you should be able to
8 do so.

9 And so -- but when you have a contract --
10 when you have this contractual proscription, not only
11 do you have the problem that that could be breaching
12 the contract, but on top of that, you're not able to
13 take advantage of the first-sale doctrine. So
14 figuring out the license piece is -- or this
15 contractual piece is critical to allowing the
16 alienability of this -- of this piece of personal
17 property.

18 And then, just secondarily, we had talked in
19 the last session a lot about -- people had talked
20 about reverse engineering and interoperability and how
21 that isn't -- how the copyright law is so clear on
22 that. And we'll talk a little more about that in the

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1 next session. But I just wanted to point out that
2 almost every piece of software that's distributed,
3 whether just as on a standalone basis or if it's in a
4 device, the license agreement almost always contains a
5 prohibition on reverse engineering for any purpose.

6 So, it's all well and good that the
7 jurisprudence says that it might not be a copyright
8 infringement. But if you have this -- these pervasive
9 license agreements that prohibit you from engaging in
10 that activity, obviously there's a tension. Now, the
11 question gets into the second question, what has been
12 the real impact on that.

13 With respect to these restrictions on
14 reverse engineering, the licensing restrictions, there
15 has been litigation. There was the *Bowers v. Baystate*
16 case and one of the issues there was is the -- is the
17 license prohibition on reverse engineering, is it
18 preempted and, the truth is -- in that case, two
19 judges say not preempted, one judge said, yes, it is
20 preempted.

21 I think that that's one of those really
22 complicated areas that I would hope this study would

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1 start delving into about this relationship of when are
2 contract terms preempted by the Copyright Act and
3 start to think about that and look at that more.

4 But I think that that is an issue that when
5 you counsel clients, you have to talk about. You say,
6 well, there's this argument, there's that argument and
7 do what you need to do. And I have a feeling that a
8 lot of -- there are some people who do go ahead and
9 reverse engineer and sort of hope that it's in the
10 event that there's litigation that it will be found to
11 be preempted.

12 And I imagine there are other people who are
13 more risk-averse and are not reverse engineering
14 because they don't want to take that risk.

15 MR. DAMLE: Sorry. Is it your understanding
16 that a violation of such a contract term against
17 reverse engineering would be -- would be just a breach
18 of contract or would that be -- is that somehow tied
19 to copyright infringement?

20 MR. BAND: Well, I think there's case law
21 that would suggest that it could be both. I mean, if
22 it seemed to be -- if it's a valid restriction and

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1 you're -- I think there is case law that would suggest
2 that it would be not only -- it would be breach of
3 contract and a copyright violation -- a copyright
4 infringement.

5 MR. DAMLE: Sorry, even if it were otherwise
6 fair use? I mean, if the reverse engineering were
7 deemed to be fair use, it would still be infringement?

8 MR. BAND: Right. I could -- again, the
9 argument would be because you're going against -- you
10 don't have the -- you might have the copyright -- you
11 would have had the copyright right but because you
12 have -- you agreed not to do it. I'm not -- I think
13 it would be an issue to be determined. But I think
14 that certainly there would be some who would argue
15 that that would be an infringement as well.

16 MS. CHOE: Sort of taking a step back from
17 the legal issues and getting into the specifics, in
18 terms of these licenses, how prevalent are they? How
19 often do they have sort of restrictive language about
20 reverse engineering or restrictive language that sort
21 of is specific to copyright?

22 MR. BAND: I would say that -- obviously I

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1 haven't done a complete survey. But I would be
2 shocked if the vast majority of programs that are
3 distributed, whether by -- I would be surprised if
4 they didn't have those restrictions.

5 Certainly every license that I have seen,
6 every software license that I have seen includes a
7 prohibition on reverse engineering. It is -- as John
8 was saying, this is boilerplate. You just
9 automatically include it. I'm sure all of Mr. Zuck's
10 members when they distribute -- or the vast majority -
11 - when they distribute their apps, I mean, it's just -
12 - it's part of the template. You prohibit people from
13 reverse engineering.

14 MS. CHOE: Well, just as sort of a data
15 point, not to bring up the four-letter word, but in
16 the 1201 rulemaking proceeding, we had a finding that
17 for ECUs and automobiles that there were no licenses
18 associated with those at the time.

19 So it would be very helpful for us to have
20 sort of specific examples of industries or specific
21 contracts themselves that are attached to these
22 products and sort of the restrictive covenants that

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1 are in those agreements.

2 MR. BAND: Well, so I know -- I can't speak
3 for the automotive industry because I'm not as
4 familiar with that. I certainly know in the computer
5 area, almost whenever you're buying -- certainly
6 whenever you're acquiring the device -- the computer,
7 and then certainly whenever you're -- all those
8 licenses that you're always clicking on whenever
9 you're -- any update you get, you're clicking on a
10 license.

11 Of course, I never bother reading that, just
12 like none of us ever read any of those licenses that
13 we're clicking on our agreement to. But I would be
14 surprised if all of those software licenses did not
15 include a prohibition on reverse engineering.

16 MS. CHOE: I'd like to open that question to
17 everyone, just to get a sense of -- because we
18 understand that these exist in the general software
19 context.

20 But to sort of narrow the inquiry into
21 software-enabled consumer products and how prevalent
22 this is in that context would be incredibly helpful.

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1 So Mr. Kupferschmid?

2 MR. KUPFERSCHMID: Yeah. I mean, I debated
3 whether to respond, simply because I don't have any
4 data. I don't have any information in terms of how
5 prevalent reverse engineering prohibitions are in
6 embedded software licenses as opposed to other types
7 of software licenses, and not to mention the
8 difficulty that we talked about in the first session
9 about making that distinction between software and
10 embedded software.

11 But I actually will not disagree with Mr.
12 Band in terms of the fact that reverse engineering
13 prohibitions, you do find them in many, many -- if not
14 virtually all software licenses. And there's a reason
15 for that, which is most people don't care about
16 reverse engineering. When you get a mass market,
17 software -- included and embedded software, how many
18 people want to go ahead and reverse engineer the
19 software in their toaster or their thermostat, as the
20 example that was used before, or something like that?

21 It allows software companies to go ahead
22 and, with a certain level of comfort, be able to

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1 include their software in those products. So there
2 are significant benefits, not only to the software
3 companies, not only to the hardware manufacturers, but
4 most importantly, there are benefits to most
5 consumers.

6 MS. CHOE: So along those lines, what are
7 the benefits and the drawbacks of having these license
8 agreements attached to the products then -- both in
9 the copyright context and outside of the copyright
10 context.

11 MR. KUPFERSCHMID: So you're talking about
12 beyond just reverse engineering now in terms of the
13 value of these licenses. I mean, I think it's
14 important to note that the software license will be --
15 is one component -- if we're talking about embedded
16 software -- in the larger scheme of things in terms of
17 the hardware itself.

18 And if you look at a lot of these software
19 licenses, for instance, we talked about transfer and
20 prohibition on transfer, most of them actually do
21 allow transfer. They may have certain conditions
22 attached to those transfers. And a lot of those have

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1 to do with consumer protections, perhaps, more than
2 anything.

3 I think it was interesting that the
4 gentleman from Public Knowledge and I think maybe
5 Jonathan as well, maybe, talked about the fact that
6 there's value in -- or having to return the product or
7 having to destroy the product. And I thought it was
8 really, really interesting the fact that the gentleman
9 from Public Knowledge talked about his big issue was
10 that there was no actual enforcement of that.

11 And, oh my gosh, I mean Public Knowledge, I
12 understand represents consumers. But now it's
13 encouraging software companies to go knocking on
14 consumers' doors and say, did you destroy that. And I
15 don't think that's anything anybody wants to do,
16 certainly not consumers and not the software industry.

17 So in terms of having to return the software
18 to prove that it's a license makes very little
19 practical sense and it's just a burden on consumers
20 and frankly a burden on the software owners. Also,
21 having to destroy it also comes with its difficulties
22 as well in terms of, do you have to prove that it was

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1 destroyed or something like that.

2 And when you're talking about a lot of these
3 software products, at the pace that technology is
4 moving, do you really need to destroy that software to
5 prove that this is a license? At some point very,
6 very soon, that software is going to be obsolete
7 anyway and have to be updated. I mean, we talked a
8 little bit about how quickly software is updated and
9 how quickly technology moves.

10 So why do we need these sort of artificial -
11 - to include these artificial requirements to show
12 that something is licensed? I do think the *Vernor*
13 test is the good test, is an accurate test of when
14 something -- when the software license should be
15 enforced under the copyright law and when it
16 shouldn't.

17 MR. DAMLE: So can I ask you the question I
18 asked -- I think it was Mr. Band -- which was if
19 someone violates a ban on reverse engineering, if that
20 reverse engineering would otherwise be fair use, is
21 that just a violation of the contract or is that a
22 violation -- is that a copyright infringement?

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1 MR. KUPFERSCHMID: Yeah. So I would have a
2 hard time believing that would be a copyright
3 infringement when you have a court saying this is fair
4 use. I mean, I don't see how that's possible. I
5 don't know that we've had any litigation in that area.
6 But so I'd take a slightly -- or maybe totally
7 different view than Mr. Band on that particular issue.

8 MR. DAMLE: Well, I assume that's an answer
9 that would make Mr. Band happy.

10 MR. KUPFERSCHMID: See, we're advocating for
11 each other. That was a joke, for the record.

12 MS. CHOE: Well, why don't we move around
13 the room, since we have a lot of tent cards up? So
14 we'll move on with Mr. Harbeson.

15 MR. HARBESON: I do want to speak. I just
16 want to make sure that I'm going to be going back to
17 the top level question, so make sure that we're -- I
18 want to thank the Office for letting me come here to
19 speak because I am representing the Music Library
20 Association, which you might not expect to see at a
21 hearing called software-enabled computer products.

22 And we're here because we believe that the -

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1 - notwithstanding its name, the study is bigger than
2 software-enabled consumer products and is -- so I'd
3 like to invite the room to take -- to go up a level of
4 abstraction and think of this in terms of the broader
5 way in which we are allowing contracts to affect --
6 allowing non-negotiable end-user license agreements
7 especially to create a parallel system of copyright
8 without the limitations and exceptions that are built
9 in.

10 And you've already been discussing this a
11 fair amount. I want to raise our issue, which is that
12 in many cases, there are -- there is music and
13 especially sound recordings, which have for years and
14 years and years, libraries have been collecting this
15 music on disc and then tape and then tape and then
16 disc again. And we've lent it and we've done -- we've
17 taken care of it. We've preserved it. We've done all
18 of the things that libraries do.

19 Along comes the digital distribution
20 services such as iTunes and Amazon, then you have the
21 Spotifys of the world and in some cases, we have found
22 that music distributors are deciding only to

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1 distribute their music -- their sound recordings
2 especially -- through these services. I'm actually
3 just talking about sound recordings, not musical works
4 -- only looking to distribute their sound recordings
5 through these services.

6 Now, in a case where they are also
7 distributed on a physical medium that we can purchase,
8 that's not a problem. We can buy them. We can
9 distribute them the way that we always have. But when
10 they're only distributed through these digital
11 distribution services and that's the only way the
12 public can have access to these sound recordings, that
13 creates a big problem for libraries. And this has
14 been on the verge of a trend. It's not quite there
15 yet. It is not, however, a parade of horrors. It's
16 actually in the record we have a -- on the record, a
17 link in our comments, we have a link to a list of
18 works that we've collected that are being distributed
19 this way.

20 In particular, I'd like to put on -- to
21 discuss one that we discussed in our comments, which
22 is the case of a Grammy award-winning sound recording

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1 of Gustavo Dudamel and the Los Angeles Philharmonic.
2 We've raised this in Copyright Office proceedings
3 before. This is a Grammy award-winning sound
4 recording produced by Deutsche Grammophon in which a
5 couple of our members spent a lot of grant money
6 trying to track down a license for this.

7 It was only being distributed by iTunes and
8 the iTunes software license makes it impossible for
9 libraries to enter into the agreement because it's for
10 end users only and libraries are not end users.
11 Furthermore, even if we could enter into the
12 agreement, it doesn't let us do anything with it.

13 So my colleagues at the University of
14 Washington spent a lot of time tracking down someone
15 who could give us -- give them a license. They went
16 to iTunes and iTunes said you have to talk to Deutsche
17 Grammophon. Deutsche Grammophon said you have to talk
18 to I think Universal.

19 And finally, after a large train of -- a lot
20 of work, they finally tracked down -- I think it was -
21 - yes, it was Universal Music Group, which -- and I
22 quote, the article that my colleagues published, they,

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1 "agreed to license the material under the following
2 conditions: that no more than 25 percent of the
3 album's content could be licensed and the license
4 would be valid for no more than two years.
5 Furthermore, a \$250 processing fee would be charged in
6 addition to the unspecified licensing fee that would
7 have been more than the processing fee."

8 So now, we're over \$500 for a two-year
9 license for not even the entire work for a Grammy
10 Award-winning sound recording and for a work that the
11 public could purchase for \$10 on Amazon.

12 Libraries do important work. We cannot
13 allow this -- these kinds of licenses to circumvent
14 the good work that libraries do. Right now, the
15 problem is only in music libraries, that we know of,
16 with sound recordings. But there are numerous
17 companies that are putting out digital works. And who
18 knows when they'll stop making CDs or DVDs? I keep
19 hearing about the forthcoming death of the CD.

20 So we are advocating for a very narrow
21 exception to the law that would allow those -- the
22 provisions of non-negotiable licenses to be -- to not

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1 be enforceable only in the event that they are -- that
2 there is no other means for a library to acquire it
3 and we can talk about that later. Thank you.

4 MR. BERTIN: Thank you, Mr. Harbeson. I'd
5 like to ask a broader question and maybe this speaks
6 to the issues that you've raised or others may want to
7 jump in. And that's the question of privity of
8 contracts.

9 I mean, if you're taking a license for the
10 software that's embedded in the product that you've
11 purchased, what impact, if any, does that have on the
12 downstream users, as Mr. Band raised earlier? Are
13 they bound by these licensing agreements? Do they run
14 with the product itself or is this an issue of
15 contract, as Mr. Bergmayer suggested that there's a
16 distinction between licensing and contract, which I'm
17 not quite sure I see the difference there.

18 MR. BERGMAYER: Yeah, to answer that
19 question, I think it's pretty simple. A license is
20 just permission to do something you otherwise don't
21 have the legal right to do. And conditions can be put
22 on that. But it's simply unilateral. There's no need

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1 for there to be a meeting of the minds or
2 consideration on both sides or anything like that.
3 Whereas a contract is a contract like you learn about
4 in law school.

5 I think in software, typically you have one
6 agreement, which is both -- just to answer sort of
7 your questions, I think the failure to distinguish
8 between a license and a contract and the allowance in
9 the software context uniquely of sellers to reserve
10 ownership rights of physical goods that they sell
11 leads to issues like the court in *MDY* ended up saying,
12 okay, well, we don't want to say that any single tiny
13 minor violation of a contractual term automatically
14 leads to copyright infringement in the case of
15 software because in the case of software, if you don't
16 own it, you need a license to operate it. And you
17 simply need a license to use the product in its
18 ordinary course.

19 And the court really saw the consequences of
20 that would be pretty bad. So they said, okay, well,
21 you actually have to look at it and you have to
22 determine is this a covenant on a license or is it a

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1 contractual condition and you have to sort of piece
2 together and like dissect the document to figure out
3 the difference. And I think that is a sort of very
4 difficult task, which you could avoid if you'd simply
5 get rid of the underlying problem of the reservation
6 of ownership because in the normal course of action,
7 for example, if I'm a movie theater and I violate the
8 contract that allows me to publicly perform a movie
9 and then I publicly perform it anyway, the idea that
10 that kind of contractual violation could give rise to
11 a copyright infringement is not a problem. It only
12 becomes a problem when you need a license simply to
13 use something in its ordinary course of operation,
14 which by all sorts of common sense you thought you
15 owned.

16 So I'm not sure if I'm sort of getting at
17 the distinction that I see between a license. But I
18 think that the failure to properly distinguish and
19 understand what a license is versus what a contract is
20 including by federal appellate courts has led us to
21 this very difficult legal situation where it is very
22 difficult to tell where -- what consumer rights are

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1 and whether or not -- and which particular provisions
2 might run with the chattel, as it were.

3 MS. CHOE: So what would be your solution to
4 that issue? Would it be sort of clarifying that
5 regardless of these licenses, that, for example, in
6 the context of section 109 or section 117 that the
7 consumer would be considered an owner in those
8 contexts at least?

9 MR. BERGMAYER: Yes, I think that is the
10 solution. For the most part, consumers who buy
11 physical items, whether it's media or consumer
12 products, I think they typically own those products.
13 Routinely, judges and the common law have historically
14 always said things like, oh, this isn't really a sale.
15 It's a thousand-year lease. Like that doesn't work.

16 Like it doesn't matter that the two parties
17 agree among themselves and they're sophisticated
18 parties that negotiate and sort of write it down on a
19 piece of paper. It's not true. You can't make
20 something that is false true just by writing it down.
21 And you can't take something that is a sale and label
22 it a not-sale and then have all sorts of legal

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1 consequences that affect people, including people who
2 are never even privy to that original agreement.

3 MR. RILEY: Is there a distinction though
4 between the types of contracts that attempt to expand
5 what we think of as copyright rights and those that
6 are short of that? When we talk about a type of
7 contract that says that you can't sell a book for less
8 than a dollar forever; that would be expanding your
9 traditional rights, right?

10 But some of these other licenses that we
11 talk about are short of the full term of copyright,
12 for example? You could use a work -- let's say it's a
13 downloaded textbook on your Kindle for the term of
14 your semester -- is there a distinction there?

15 MR. BERGMAYER: Well, I think the reason we
16 keep talking about this in the copyright context is
17 because of the RAM copy doctrine, which says that if
18 you're not the owner, you need a license to use the
19 product. And that's not true in any other context.
20 Even if I don't own a book, even if I sold it, simply
21 reading it does not constitute an infringement.

22 But in the case of software, if you're not

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1 the owner of the physical item, the material object,
2 the copy, you need a license. And therefore, all sorts
3 of crazy conditions can be put on that license and
4 simply infringing any one of them could lead to an
5 instance of copyright infringement. And it's a very
6 software-specific notion that comes out of this
7 concept that simply to use a product in its ordinary
8 course of operation somehow triggers copyright. And
9 that's true uniquely in software and I think that's
10 why this is a software-specific problem.

11 I'm not going to say that there can't be
12 other problems with overbroad contracts or licenses.
13 But, I'm just really focused on this concept of
14 ownership and RAM copies leading to minor infractions,
15 perhaps leading to copyright infringement in the case
16 that's unique to software.

17 MS. CHOE: Well, we should get some more
18 thoughts --

19 MR. BERGMAYER: Yes.

20 MS. CHOE: -- on these issues. So let's
21 move on to Mr. Mohr.

22 MR. DAMLE: Turn on your --

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1 MR. MOHR: Sorry. I have several points
2 that look nothing like what I was originally going to
3 say. A couple of things. I mean, first of all, I
4 think there's been a fair amount of healthy candor
5 that the complaints going on here are far broader than
6 what this examination is supposed to be about, which
7 is embedded software. And these are complaints about
8 licensing generally.

9 I've seen reflected a greater degree of
10 certainty than I have about whether a particular
11 restriction will trigger infringement liability
12 because there are covenants and conditions. And
13 covenants trigger contractual liability and conditions
14 will trigger infringement liability.

15 And so, and then, in that context, even if
16 the infringement -- even if there's an alleged
17 infringement, I honestly don't know the answer as to
18 whether an affirmative defense in that particular
19 situation might excuse that infringement and then lead
20 only to a contract liability. I don't know. I don't
21 know the answer of the top of my head.

22 But I think that's the way that -- that's

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1 one way that the courts could resolve this. The
2 second thing that I confess some confusion to is
3 knowing when a sale and a license occurs. The problem
4 is that there seems to be some belief that there's a
5 unified field theory of software licensing and that
6 every -- it's true, most pieces of software are
7 licensed. But there are situations when they're not
8 and the courts have done a good job at sorting that
9 out. Different facts, different results, different
10 types of media with particular commercial customs,
11 different results.

12 That seems to have worked reasonably well.
13 And so, now, they are -- friends have problems with
14 the existence of licensing generally, and that's fine.
15 But there's no -- but it's a big jump to say from
16 there that, okay, well, embedded software is a special
17 problem that needs these special rules. It doesn't,
18 and I think that's -- I'm not sure that Congress
19 necessarily agrees with that premise, and certainly
20 the courts haven't.

21 And then, finally, there were two little
22 things about ownership that I wanted to mention. The

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1 first has to do with unforeseen consequences. I mean,
2 I think one of the reasons that open-source software
3 works is that because the license restrictions run
4 with the copy. And so, if someone becomes an owner of
5 a particular copy, they're no longer bound by the
6 license restrictions. So at that point, how does the
7 community survive? What's the incentive for the open-
8 source community to survive?

9 And the second thing that struck me, again,
10 in sort of making it out that, oh, there's this
11 software bogeyman, I'm not sure that's right either
12 because -- and an example of that is 512. There's all
13 kinds of works now that are reproduced in RAM. That's
14 not unique to software. And that may be a problem
15 that our friends have with the copyright law
16 generally.

17 But again, that protection of content on
18 computer networks is, frankly, essential to many of my
19 and other folks' and members' well-being. And that's
20 not a -- that is not a particular provision in the law
21 that we're inclined to reexamine, or application
22 rather.

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1 MS. ROWLAND: I had a follow-up question for
2 you.

3 MR. MOHR: Yeah.

4 MS. ROWLAND: We're really trying to limit
5 this to the scope of consumer products and embedded
6 software, which, as we heard from the first panel, is
7 apparently very difficult, if possible at all, to
8 draw. But a lot of this discussion is really way
9 beyond that kind of situation.

10 And in *Vernor* and *Krause*, they both dealt
11 with the software itself. So you're selling -- there
12 was a license for the actual software versus a sale.
13 And I wonder what the opinions would be or the kind of
14 legal analysis could be based on something else. Like
15 you buy the refrigerator. It has some sort of
16 software to make the ice cubes come out or whatnot.
17 When you buy the refrigerator, you're not signing a
18 license or anything. It's just kind of coming
19 through. And what the different analysis might be.

20 MR. MOHR: I think in that context, I mean,
21 the analysis would be kind of -- I would expect it to
22 be context-specific. So in other words, all of those

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1 decisions would be made against a backdrop of sales of
2 goods that have occurred for decades.

3 And so, I agree. I think slapping a label
4 on a refrigerator saying this refrigerator is
5 licensed, I'm not sure that would -- I'm not sure that
6 would work. But that's not what's really happening.

7 I mean, when that refrigerator contains
8 essentially a functioning computer and that computer
9 starts -- results in a continuing relationship with
10 the software provider, for example, over, I don't
11 know, what you had in -- what the UPC codes are that
12 you put in your refrigerator and now it know what
13 you've been eating, how often you're eating, whether
14 or not you're on your diet plan, all of this other
15 kind of personal information.

16 That's an appropriate, very appropriate
17 situation for a license agreement. That is also a way
18 that the manufacturer maintains the integrity of its
19 product, by kind of setting the terms under which that
20 relationship occurs. They're entitled to do that.
21 And if consumers don't like that relationship, there
22 is no -- they can go and buy a different refrigerator.

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1 That's why we don't see this as a -- we don't -- as a
2 group, we generally don't see a problem here. It
3 seems to be working okay.

4 MS. CHOE: Mr. Zuck?

5 MR. ZUCK: Thanks. You do come around past
6 what you originally thought you were going to say.
7 But the discussion evolves. But I think that, again,
8 taking a kind of step back, there's the entire history
9 of the software industry that comes into play when
10 looking at some of the standard practices that we see.
11 Like prohibitions on reverse engineering and you have
12 to remember that that's a legacy of tremendous amounts
13 of software piracy and people just trying to empower
14 themselves in any way possible to try and stem the
15 flow of that.

16 I also think that it's a little bit specious
17 to say that a copy, a digital copy of something is
18 really the same thing as a physical object. And where
19 this really bears itself out is that enterprises, for
20 example, have one copy of a piece of software and can
21 buy multiple licenses for its use. There's different
22 keys, et cetera, that I put in to make use of the

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1 software. So it's a little bit like you're allowed to
2 make as many copies of this encrypted book as you want
3 to. But what I'm going to sell you is the key that
4 allows you to decrypt which letters to read to read
5 the book or something like that, right?

6 And so, I think there is a distinction that
7 has allowed for very dynamic business in terms of
8 business models, whether the example you brought up in
9 terms of educational pricing, enterprise pricing, et
10 cetera. There's different support plans. There's
11 also a history of support for software that's very
12 different than it is for physical products and there's
13 reputational things to consider as well.

14 I mean, we have a member, Drinkmate, that
15 actually made an overt attempt to have an open license
16 for people to create different versions of the
17 implementation software on what was essentially a
18 personal breathalyzer device, right? And what they
19 found over time is that they weren't able to maintain
20 a standard of quality among these sort of publicly
21 provided versions of the software for devices and they
22 suffered a reputational harm as a result and had to --

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1 and were only enabled to because of it being a
2 license, to bring that back in-house and make sure
3 that only their software was associated with those
4 devices so that they could recuperate from that
5 reputational harm that they suffered.

6 So I mean, I think there's a lot that's
7 unique about software. I think as we move forward
8 into the internet of things and embedded software in
9 devices, you're going to see more experimentation in
10 business models. And some of the legacy practices
11 will start to fall away because some of the legacy
12 dangers will fall away at the same time. But I think
13 all of that is going to happen much more quickly, in a
14 much more dynamic fashion than any kind of legislative
15 effort would happen.

16 So again, as we said in the last panel, I
17 think that the existing mechanisms that are in place,
18 both in terms of contract law and copyright
19 exceptions, provide a more fluid and a better place to
20 deal with these issues than some kind of legislative
21 solution.

22 MS. CHOE: Mr. Perzanowski, I think you --

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1 and then we'll go to Mr. Bockert.

2 MR. PERZANOWSKI: So there are a couple of
3 distinctions that I think are useful to draw that I
4 think at some points in our discussion have been
5 confused. So first, I think we need to distinguish
6 between licensing software and licensing copies of
7 software and those are two very different things.

8 I also think we have to distinguish between
9 questions of interpreting and enforcing contracts on
10 the one hand and what I think should be the crucial
11 question for this discussion, which is how we
12 determine whether a transfer of ownership has occurred
13 when it comes to particular copies of software, right?

14 And one place I think it makes sense to look
15 is the statute itself. Unfortunately, maybe for
16 better or maybe for worse, the Copyright Act does not
17 define ownership in the context of consumers. It
18 doesn't define transfers of ownership.

19 But there is language that's useful in this
20 interpretative question and that language is in 106(3)
21 itself, right? 106(3) defines the kinds of
22 distributions that copyright law recognizes when it

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1 comes to particular copies. And it divides the
2 universe into two kinds of distributions. There are
3 sales and other transfers of ownership on the one hand
4 and there is rental, lease and lending on the other.

5 So every transfer of a copy, every
6 distribution of a copy is either a transfer of
7 ownership or it's a rental, a lease or a lending.
8 That's really clear from the statute. So the question
9 is if someone wants to license a copy, which one is
10 it? And I think if you look at it from that
11 perspective, it's actually a much easier question to
12 answer.

13 The idea of a licensed copy is really a
14 myth, right? That's not a real thing. It's not a
15 transaction form that the Copyright Act recognizes.
16 You might say that there are certain kinds of leases
17 or rentals or lendings that you want to use the label
18 license to characterize. But there's no such thing as
19 a licensed copy. The software industry has been
20 pretty successful in convincing some courts that
21 that's a real thing --

22 MR. DAMLE: But how would you -- sorry. How

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1 would you explain *Wise* then, where they essentially
2 had perpetual possession of the movie -- the film
3 prints, but under restrictions. And the courts --

4 MR. PERZANOWSKI: You're talking about *Wise*?

5 MR. DAMLE: Yeah, *Wise*.

6 MR. PERZANOWSKI: So we could characterize -
7 - we could look at the facts of *Wise* and say that that
8 is -- that that is a lease, that that is a lending,
9 that there are certain restrictions, right? So what
10 is it that separates a transfer of ownership from one
11 of these other kinds of more temporary time-limited
12 transactions? And it might be an ongoing obligation
13 to pay. It might be that there is some sort of
14 durational limit, right? At some point, you've got to
15 give the thing back. That fits I think reasonably
16 well into the common understanding of leasing or
17 rental, right?

18 It's not a transfer of ownership if, when
19 the thing is given to you, it is made explicitly clear
20 that at a certain point you have to return the item,
21 you have to destroy the item. That's not a transfer
22 of ownership, right? Ownership entails perpetual

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1 possession, no ongoing obligation to pay. When those
2 two factors are present, what you have is a transfer
3 of ownership, right?

4 MR. DAMLE: So is it your position that both
5 *Vernor* and *Krause* are incorrect? Not the decision,
6 that the reasoning of both of those cases is
7 incorrect?

8 MR. PERZANOWSKI: I'm happy to say that the
9 reasoning in *Vernor* is incorrect. I think the
10 reasoning in *Krause* is less clear than it should be,
11 although I am --

12 MR. DAMLE: But *Krause* acknowledged that
13 there could be -- I mean, it didn't find a license in
14 that case. But it acknowledged that there could be
15 licenses.

16 MR. PERZANOWSKI: Yeah, that's right. Yeah.
17 I think the conceptual framework that courts used to
18 answer this question is confused.

19 A couple of other points here. One of the
20 questions that came up is what's the value of a
21 license that purports to deny a transfer of ownership
22 to a consumer? And there's a lot of value there.

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1 It's value that I think we should question from an
2 overall social utility standpoint, right? It's about
3 restricting resale. It's about controlling
4 aftermarket products. It is about controlling the
5 market for services. It might be about price
6 discrimination, and we can have a debate about the
7 merits of price discrimination.

8 There are other means other than denying
9 consumers the right to own the things they've
10 purchased to achieve price discrimination. I think
11 it's worth pointing out that the Supreme Court was
12 really clear in *Kirtsaeng* that price discrimination is
13 not among the rights that copyright holders get to
14 enjoy by virtue of their copyright. So if we're
15 thinking --

16 MR. DAMLE: But you would acknowledge there
17 are -- I mean, this is sort of like basic economics,
18 right? I mean, there are consumer benefits to
19 allowing for price discrimination.

20 MR. PERZANOWSKI: There certainly can be.
21 But I would not say that price discrimination is
22 necessary overall to the benefit of consumers. There

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1 are certain circumstances where price discrimination
2 is in fact very useful for consumers. But denying
3 consumers ownership and imposing ongoing copyright
4 obligations is not the only way to price discriminate.
5 There are lots of industries that price discriminate
6 that don't use copyright law whatsoever.

7 And I think we've seen in the wake of
8 *Kirtsaeng* that price discrimination in the market for
9 academic textbook continues. There are other ways of
10 achieving that goal. One way of achieving that goal
11 is to not sell products to people, right? Don't
12 engage in transactions that look like sales. Engage
13 in transactions that look like subscriptions, that
14 look like rentals. My students have the option to get
15 their case books in law school on a rental model,
16 right, or on an ongoing subscription model. That at
17 least is an honest way of engaging with consumers.

18 You're not characterizing a transaction as a
19 sale when in fact you don't believe that it's a sale.
20 Those kinds of transactions carry with them
21 expectations that consumers think they're getting a
22 certain set of rights when they buy a product, right?

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1 When you go and you buy that new refrigerator, you
2 think you own it. You don't think you're entering
3 into an ongoing relationship with a service provider,
4 right? That's what you do with your cable company. I
5 won't say more about what people think of their cable
6 companies.

7 But when you buy a refrigerator, you think
8 you own it. You think you have a certain set of
9 rights. I just -- I have a study that was just
10 published last Friday that looks at this question in
11 the context of digital media, that looks at the buy-
12 now button used prominently by Amazon and Apple and
13 finds that consumers believe they have the right to
14 engage in resale with digital media that they buy now,
15 to lend that digital media to others, to give it away,
16 to leave it in their will, right?

17 So when you set up a transaction, when you
18 present it to consumers in the context of a sale, they
19 have expectations about what they're getting. And the
20 fact that some license agreement, that no one in their
21 right mind would invest the time to read -- includes
22 terms to the contrary does not change those consumer

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1 expectations, right?

2 So this isn't to say that we can't allow for
3 flexible business models that give software companies
4 the kinds of -- the kinds of protections that they
5 think they need. You can look at what Adobe has done
6 with its Creative Suite over the last few years. You
7 can't buy it anymore. You can pay Adobe \$50 a month
8 for the rest of your life if you're a creative
9 professional to use their software.

10 And in a lot of ways, I think that was a
11 really smart decision on their part, right? It avoids
12 the problems that they saw with resale. It allows
13 them a more predictable revenue stream. It allows
14 them to deliver product updates to consumers in a more
15 effective way. And it's a really honest transaction.
16 You know what you're getting from the outset.

17 MR. DAMLE: So is this a problem that's
18 going to diminish as we go forward because, as we move
19 more and more into kind of cloud-based services, the
20 sort of -- the sort of problems that you've identified
21 are kind of problems of the moment. But we have
22 Office 365. There's all sorts of other ways in which

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1 we're now -- software is moving now into like cloud-
2 based subscription models.

3 MR. PERZANOWSKI: So in some ways --

4 MR. DAMLE: And the reason why I'm asking
5 that is because, if we're looking ahead, if we're
6 solving yesterday's problem, it doesn't make very much
7 sense.

8 MR. BERTIN: I'm sorry. Can I just add one
9 point on top of that? I mean, the Adobe example you
10 cite is a good one. But sort of the logic behind your
11 argument is that the physicality of the Adobe product
12 is gone. There is no longer a CD that you're
13 purchasing. You're simply downloading the product, as
14 opposed to your refrigerator, which is physical in
15 every sense of the word and it's going to be with you
16 for a long time. So is there a distinction there?

17 MR. PERZANOWSKI: Yeah. Well, I think in
18 the Adobe example, you're not buying anything, right,
19 that transaction is absolutely on the rental, lease or
20 lending side of this divide in section 106(3). So I
21 don't think there's any good argument that the
22 consumer owns anything. They're paying for a service.

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1 In terms of whether this is yesterday's problem or
2 tomorrow's problem, in some ways, I think for markets
3 for pure software products, we are going to see a move
4 in this direction towards cloud-based services.

5 The area where I think we need to be
6 focusing, as I think we are here today, is what
7 happens when we see software embedded in everyday
8 products that consumers use every day, right? There,
9 there is necessarily a kind of physical embodiment of
10 the work and of the product.

11 And so, in those circumstances, I don't
12 think you can escape these questions, right, because
13 the nature of the product embeds that kind of
14 physicality. And unless we start to see -- which I'm
15 doubtful about -- unless we start to see a really
16 explicit shift to now you don't buy your home
17 appliances, you lease your home appliances, we're
18 going to have to face this question of who owns the
19 software that makes that product work, right?

20 The software is just as important to the
21 functioning of your car or your new smart refrigerator
22 or your smart TV as any of the physical components.

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1 So to tell consumers, sure, you own the plastic and
2 you own the chips and you own the display, but the
3 thing that actually makes the thing work, the thing
4 that actually makes the thing valuable, someone else
5 controls that. That puts consumers in a really
6 precarious situation, right?

7 Think about -- I missed the beginning of the
8 first panel. So I'm sure someone has already
9 mentioned Revolv. But look at what happened with that
10 device. Consumers went out. They bought this device
11 for \$300, this home automation hub. They thought they
12 owned it. They thought they got to use it as long as
13 they wanted, until one day they got a message that
14 said, oh, that thing you bought, that's a brick,
15 right? It's useless now, because they don't own and
16 they don't control the software that makes it operate.
17 That puts consumers in a really precarious position.

18 So you know, I'm worried about a future
19 where consumers have this illusion of ongoing personal
20 property rights that they have enjoyed for centuries.
21 But what's really going on and what they will learn
22 only when it is too late is that they really have no

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1 control over the objects that surround them and that
2 they rely on.

3 MS. CHOE: So first, I'm going to announce
4 that we're extending the panel since there are some
5 really good thoughts being discussed. But going sort
6 of towards what you've been talking about, how has --
7 and this is for you and everyone else -- how has this
8 played out in the market?

9 I think you mentioned -- I don't know if
10 this is actual data, but the possibility of the
11 refrigerator and that if consumers aren't happy with
12 the restrictions that come with that refrigerator,
13 that they can just buy a refrigerator from a different
14 seller. And in the comments, there is the example of
15 the Keurig device, where people were upset with the
16 restrictions set forth by Keurig and they decided for
17 PR reasons to move forward in a different direction.

18 So I'm really curious how the market plays
19 out in this sphere.

20 MR. PERZANOWSKI: I think the short answer
21 is it's too early to tell. This is all developing as
22 we speak. There have been instances where consumers

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1 were up in arms enough about a particular restriction
2 that they could -- that they could effectively move
3 the needle in terms of how a company responds. There
4 have been other examples where that hasn't been the
5 case.

6 Frankly, the big problem is these
7 restrictions do not become clear to consumers until
8 they are faced with a device that doesn't behave as
9 they expect it to, right? So you know, the Revolv is
10 I think the clearest and most recent example of that.
11 It's not the only one. The comment that I submitted
12 includes a long list of consumer devices where these
13 kinds of problems have presented themselves.

14 So I'm not willing today to say that the
15 market is going to be capable for solving these
16 problems. I think in some instances it will and in
17 many, it won't.

18 MS. CHOE: So why don't we move on to Mr.
19 Bockert?

20 MR. BOCKERT: So I think --

21 MR. DAMLE: If you'd just turn on your
22 microphone?

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1 MR. BOCKERT: Sorry. So the refrigerator
2 example is a good one. And you confront a variation
3 of the problem or this issue in almost every merger
4 and acquisition, where you have a buyer going in and
5 saying I want all your refrigerators in this facility.

6 And in the back of your mind, you're like,
7 well, each of these refrigerators has software in it
8 so that when you press a button, it shoots out ice,
9 right? And you go to the seller and you say, I'd love
10 to see the license that covers the software that
11 shoots out the ice in your refrigerators. And the
12 seller, of course, says: "I either had it and I lost
13 it, or it doesn't exist at all." They just don't
14 know.

15 And then, as a buyer, you have to ask the
16 question, am I allowed to acquire this? Is the owner
17 of that software going to hold me up -- hold up the
18 transaction, perhaps have a special transaction fee
19 just to allow it to go through? And you know, in
20 refrigerators, it may be an easy example because it's
21 small amounts of money. But the larger the products
22 get, we can start adding up a lot more money.

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1 And I think the idea is we already have
2 concepts, especially imported from patent law, like
3 the doctrine of exhaustion, where we can say, maybe in
4 certain cases with software, when it's embedded in a
5 consumer product and it acts in a certain way in that
6 consumer product, the doctrine of exhaustion can
7 apply. We can say, "look, this is what it's doing in
8 that refrigerator. Therefore, the sale can go on; it
9 runs with the good."

10 MS. CHOE: Why don't we move back this way?
11 Mr. Zuck?

12 MR. ZUCK: Sure, and I know we're running a
13 little bit long. I guess again I get back to the
14 notion that there's a lot of dynamism sort of in the
15 marketplace. And so, if you look at TiVo as another
16 example, they were practically giving away hardware
17 that was in conjunction with software as a service
18 that allowed for programming and storage of content.

19 And so embedded in that business model was
20 sort of like basically subsidizing the hardware with
21 what was a software license. And again, I think that
22 you're going to potentially see things like that with

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1 refrigerators, that there's a service or you connect
2 it to Weight Watchers or something like that
3 associated with your refrigerator and its monitoring
4 capabilities.

5 And I can't foresee what all of these
6 business models are going to be. But I can imagine
7 them. And I think to some extent, we're going to have
8 to rely on requirements for notice and things like
9 that to take the place of trying to jigger the law
10 around it. And again, I come back to that being the
11 fundamental question you're asking is whether or not
12 there is some fundamental change to be made to
13 copyright law to accommodate what is an incredibly
14 dynamic market with an incredibly dynamic business
15 model.

16 And as I said, as the risks associated with
17 piracy change, as the needs for consumers change, I
18 think the market will evolve in such a way that it'll
19 address these things. I mean, the number of people
20 that are really affected by the license agreement in a
21 refrigerator and their inability to sell it, at least
22 to date, is nonexistent, right?

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1 People have been selling devices in cars to
2 each other that have software embedded in them for the
3 most part. And so, again, until we really have an
4 identifiable problem, I think we shouldn't be looking
5 ahead to the solution, because we'll get it wrong.

6 MS. CHOE: And Mr. Mohr?

7 MR. MOHR: Two responses, I guess two
8 hopefully pretty quick points. Right, well, so the
9 first has to do with the idea of licensing copies on
10 which the entire open-source software industry is
11 based. A wise man once said, and I think it was John
12 Band, that if all the courts come out against you,
13 you've got to entertain the possibility that you're
14 wrong.

15 And in this particular instance, I mean,
16 that's the way all of the cases have come out. That's
17 the legal reality we live in. That's the reality
18 that's worked quite well. Again, it's the model that
19 open-source depends on and a lot of our other members
20 depend on to make money.

21 The second thing I would suggest is to be
22 careful, very careful when you analyze these issues

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1 about getting confused between issues of consumer
2 protection and issues of copyright law. So it is true
3 that if you, in certain circumstances, in a specific
4 transactional context, that the presence of a buy-now
5 button could convey an impression that is dismissive
6 or deceptive and it is also true the same can be said
7 of many things, for example. Campaign commercials.

8 It does not follow from that that there is
9 any in the copyright system whatsoever. And I think
10 it's important to draw that line between a particular
11 practice and a particular context. And this is one of
12 the things that the PTO is going to look at because
13 this came up in the context of their study and some
14 kind of inherent problem with licensing itself. I
15 think these are two very different inquiries. That's
16 it.

17 MS. CHOE: Mr. Harbeson?

18 MR. HARBESON: I want to go back to the
19 refrigerator and point out that, yes, the consumer can
20 go find a different refrigerator if she has a problem
21 with the licensing. But she still needs the
22 refrigerator. And if all of the refrigerators can

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1 carry some kind of unacceptable license, she's out of
2 luck.

3 Now, to use that to once again beg the
4 room's indulgence, in the case of a sound recording of
5 a musical work, it's the only sound recording. It's a
6 monopoly. This is why this is related to copyright.
7 If you're the only -- if you have the exclusive right
8 to that particular sound recording and my library
9 needs that particular sound recording, there is no
10 other way I can get it. That's where the consumer
11 protections fail. There is no way for the library to
12 serve this material.

13 And another thing that I've heard brought up
14 -- it may have been in an earlier panel, and I'm sorry
15 if it was -- but the idea that software licenses are -
16 - well, the software products are updated so fast and
17 their lifespan is so short that they really aren't --
18 they aren't a long-term problem. But with sound
19 recordings, which last hopefully hundreds of years --
20 in some cases, they lasted more than a hundred anyway
21 -- a license that doesn't have an expiration will
22 become a problem for a very long time.

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1 And so, again, I really would like to
2 encourage everyone to think about this as a problem
3 that's much bigger than simple software-enabled
4 consumer products. The folks that I represent are not
5 -- do not have a problem with licensing per se. the
6 idea of an iTunes model, providing licensed copies,
7 begging your pardon, to consumers directly for 99
8 cents and having all of those terms and conditions is
9 not actually our problem.

10 The problem is when libraries specifically
11 are excluded from that process and are unable to
12 include culturally extremely significant works in our
13 collections and those works die out as soon as the
14 service dies out.

15 MR. DAMLE: Okay. Thank you.

16 MR. LOWE: So I want to address the issue of
17 whether you can go out and buy another product. When
18 you purchase a vehicle, you're spending \$30,000,
19 \$40,000 for that car. The information that's
20 available to you about the repair of that car, the
21 licensing is not entirely apparent to you until you
22 have to actually go through it. And then, you find

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1 you're now subject to the fact that you don't own that
2 vehicle.

3 The licensing hasn't really occurred in the
4 motor vehicle area. But I mean, it's part of the 1201
5 discussions that car companies raised the fact that
6 when you purchased a car, you were -- the owner was
7 licensing that software and didn't necessarily own
8 that software that was on that vehicle. That created
9 a huge firestorm in itself and within our industry and
10 with consumers.

11 And I think that cars are around for
12 multiple years. What happens to those cars? They
13 change hands. Parts are taken off those cars with
14 software on them and then they're remanufactured by
15 individual companies that then what happens to that
16 software? Can we reuse that software on that
17 remanufactured part? Because the part itself needs to
18 have that software to operate. Those are all
19 questions that I think are -- that I think need to be
20 answered as well.

21 But I don't believe that you can simply say
22 that you're going to just buy a -- if you buy a Ford

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1 and you don't like the whole deal, you can go out and
2 buy a Chrysler next time because simply you're pretty
3 much stuck with that car for a while and the servicing
4 of that vehicle.

5 MS. CHOE: Do you feel like the market in
6 that area hasn't addressed those issues? I recall
7 there being some press on some of the car companies
8 considering those issues and those concerns and coming
9 to I believe it was a memorandum of understanding when
10 it comes to, you know --

11 MR. LOWE: Yeah. We came to a memorandum of
12 understanding on the right to repair, which meant that
13 all the information tools and software supposed to be
14 available to a repair shop to be able to repair that
15 car. But that doesn't necessarily cover the part
16 itself.

17 MS. CHOE: Mr. Kupferschmid?

18 MR. KUPFERSCHMID: Thank you, and I guess
19 maybe we can talk about a different product there than
20 refrigerators so close to lunchtime. I don't know
21 about you. I'm getting a little hungry. To address a
22 few points of Professor Perzanowski -- if I'm

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1 pronouncing that right -- discussed, he had some --
2 took some issue with the *Vernor* case, but at the same
3 point talked about how you distinguish lending from a
4 sale and the fact that lending -- and I'm pretty sure
5 this is a quote -- there are certain limitations.

6 If you look at the *Vernor* case, it sets part
7 -- there's a three-pronged test and that includes that
8 the license includes limitations on transfer, but also
9 limitations on use. And that would sort of seem to
10 satisfy that requirement. It was also raised about
11 the question are we trying to solve yesterday's
12 problems and I could not agree more with that.

13 For some reason, we have this fascination,
14 love affair with destruction and return of the product
15 and hitting the buy-now or buy button and people are -
16 - consumers are confused about that. I think it
17 depends on the consumers. I think if you were to have
18 my 17-year-old son sitting here instead of me, I think
19 he'd say there's no confusion whatsoever because he's
20 grown up in an environment that's very different.

21 If you look at -- I mean, and this issue is
22 not specific to copyright either. If you hit the buy

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1 button when you're buying a seat on an airplane, but I
2 don't think anybody thinks that they're actually
3 buying that seat. And so, I think that terminology
4 has just been used because it's easier for consumers
5 to understand.

6 We talk about sort of these long EULAs and
7 long licenses and it's so difficult for consumers to
8 understand. The idea is everyone's trying to make it
9 easier for consumers. And if you have these long
10 descriptions within the button, I think that would
11 certainly make it more difficult.

12 And then, just a last thing I'd just
13 reiterate which was already said, to the extent that
14 the software licenses embedded in software -- because
15 remember, that's what we're talking about here -- are
16 being misused or abused, the market is and will be
17 self-correcting. In our comments, we mention the
18 Keurig example, okay? And that applies here.

19 If you're engaging -- if a software or a
20 hardware manufacturer is engaging in sort of anti-
21 consumer behavior, they're not going to be around very
22 long. And if the manufacturer is dealing with a

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1 software company and that software company is trying
2 to enforce their license in a way that the
3 manufacturer isn't -- and device manufacturer isn't
4 particularly pleased with, well then that relationship
5 is not going to last very long either.

6 So there are -- in terms of the market and
7 relationships, there are self-correcting mechanisms in
8 there if in fact these problems were to continue to
9 occur or occur going into the future.

10 MS. CHOE: Mr. Band?

11 MR. BAND: So a lot of people have raised
12 the issue of sort of that there's this continuing
13 relationship, that you're really not getting software
14 as a product, but it's software as a service. And
15 that certainly might be true with respect to some of
16 the software in the devices that we're talking about.

17 I mean, it could very well be that in your
18 computer there is one piece of software that is
19 communicating to the central server somewhere in the
20 sky and telling them that you are eating too much.

21 But I think there's going to be a lot of
22 other software in the refrigerator and certainly a lot

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1 of other software in the car and all of these parts
2 that Mr. Lowe has been talking about that communicate
3 with one another, where they're not interacting with -
4 - that they're just interacting with other parts of
5 the car. And you'll have the software that's
6 interacting with other parts of the refrigerator.

7 And I think it's important to sort of try to
8 keep these issues -- keep those separate because I
9 agree that if there is an ongoing relationship, that
10 poses different issues. Now, part of it -- there's a
11 related issue, like are you paying for the ongoing
12 relationship. Certainly if you're paying the
13 subscription fee every month, that's one thing.

14 If there's sort of a paid-up license at the
15 beginning, where it's understood that you're -- for
16 the life of the refrigerator, it will always be
17 communicating with the cloud, that might be a
18 different situation. And maybe in that case the
19 person who bought the refrigerator has a different
20 bundle of rights.

21 But it certainly seems to me that if we're
22 talking about sort of software that is -- where there

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1 is no ongoing relationship -- I mean, that seems to me
2 to be a much easier case to say, okay, let's figure
3 out how to deal with that situation. In other words,
4 there's a bit of a spectrum here, a spectrum of
5 relationship. There could be situations where there's
6 absolutely none. There could be a situation where
7 there's a very tight relationship with the ongoing
8 subscription.

9 And then, you have situations in the middle
10 where there might be some sort of ongoing relationship
11 and it's all paid up. And those are three very
12 different situations that I think could be --

13 MR. DAMLE: So do you think -- I mean, to
14 me, that suggests that then we should be very careful
15 about trying to establish rules in this area and maybe
16 it's something that we should let courts sort out on a
17 case-by-case basis. I mean, do you disagree with
18 that?

19 MR. BAND: Yes, because I think it is
20 possible to come up with rules. Certainly where there
21 is no ongoing relationship whatsoever, I think that's
22 a very easy case, and we could come up with rules

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1 today. And in fact, to some extent, that's what YODA
2 tries to do that. It tried to be very careful. And
3 one of the things that -- in conversation with
4 Congressman Farenthold's office that came up was
5 exactly this. Well, what about -- what about the
6 updates, right?

7 And so, there were some folks who said,
8 well, if you -- and again, we were only dealing with -
9 - the contemplation is only when you have a paid-up
10 license, when it's all -- you pay once up front. No
11 ongoing payments. And so, should you be -- when you
12 sell it to the -- when the device is sold to the
13 second person, what do they get in terms of -- in
14 terms of the software going forward?

15 And there were some folks who were very
16 interested in saying, well, you should be able to get
17 whatever the first person -- whatever the first
18 purchaser would have gotten if it had stayed in that
19 person's possession. So to the extent that there
20 would have been ongoing updates, then, the second
21 purchaser should be able to get everything that the
22 first purchaser had bought -- would have gotten.

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1 But actually, those -- the ultimate
2 conclusion -- again, not necessarily that our members
3 would have wanted -- was that, no, you only get bug
4 fixes and security patches. You don't get the new
5 releases. So that you're -- that there's -- you are -
6 - even though you would have paid up front and if it
7 had stayed with the first person, they would have
8 gotten any new release, the idea is that because the
9 sense was that there is this ongoing relationship and
10 it's sort of different, that you don't get all -- you
11 don't get the full bundle, you get less. But the
12 point is that these are lines that Congress is
13 perfectly capable of drawing.

14 MR. DAMLE: That line seems particularly --
15 that seems like a very -- a very difficult line to
16 apply in practice. If I'm a software company,
17 oftentimes I'm bundling bug fixes with new releases.
18 So I'm adding new features and I'm adding bug fixes
19 and sometimes they're sort of integrated.

20 MR. BAND: Well, so if the Copyright Office
21 wants to recommend that it should just be -- you
22 should get everything the first purchaser wanted and

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1 that you should get all of the new releases, that
2 would be great.

3 MR. DAMLE: I mean, but that again goes back
4 to the question of whether there's like a practical
5 concern here. I mean, I'm just looking on eBay to see
6 if I can buy a used Nest thermostat, and you can.

7 And I'm not -- so going again to the fact
8 that this is about consumer products, if there's not a
9 problem -- a demonstrated problem in the marketplace,
10 I'm not sure, just looking at it from Congress'
11 perspective, that they particularly would be
12 interested in trying to jump into this kind of thorny
13 issue.

14 So again, just to reiterate, to the extent
15 that we have specific examples of this occurring in
16 the context of consumer devices, not in the context of
17 sort of business-to-business-type transactions, I
18 think that would be something we'd be very interested
19 in finding out about.

20 MS. CHOE: Mr. Bergmayer?

21 MR. BERGMAYER: Okay. Just for the record,
22 open-source software is not dependent on licensing

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1 copies. It's dependent on licensing intellectual
2 property rights that the licenses otherwise would not
3 have and placing conditions on those rights, which is
4 totally legit.

5 So for example, the GPL grants to the
6 licensee the right to make reproductions or the right
7 to make derivative works. Licensees don't otherwise
8 have those rights. So putting conditions on those is
9 fine and I don't have an objection to that. Those
10 licensees do not depend on saying that the ultimate
11 user does not own a copy of the software in question.
12 And I think that is a very important distinction.

13 Second, I think, let's say for the sake of
14 argument that I own this iPhone. When I install an
15 app on it, I think I own a copy of that app. A copy
16 is defined in the statute as a material thing. The
17 only material thing I see is the iPhone. Therefore, I
18 necessarily own a copy. I don't think there are
19 negative consequences of that for the software
20 developer.

21 What does it mean? It means that I can
22 operate the software without needing a specific

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1 license by virtue of the essential step test, the
2 essential step doctrine, which says that I'm entitled
3 to make RAM copies that are necessary to use physical
4 items that I own. I don't think that's bad for
5 software developers. And it might mean that first-
6 sale applies.

7 But as a practical matter, in today's
8 technological environment, what am I going to do?
9 Sell my entire phone, including my iTunes account?
10 That's really not going to happen. I think it could
11 happen if I were to sell my iPhone, including my
12 iTunes store account that it's tied to. I think I
13 should be allowed to do that and I think that's where
14 first-sale would kick in.

15 But as a practical matter, first-sale
16 doesn't entitle me to make arbitrary numbers of new
17 copies and resell them. It doesn't entitle me to
18 engage in piracy in any respect. In fact, the main
19 thing that saying that I owned a copy of software that
20 I bought, even in the case of an Adobe Creative Cloud
21 situation, is simply to say that simply by virtue of
22 owning it, I don't need a license just to use it.

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1 It doesn't grant any new rights. It doesn't
2 necessarily even entitle me to software updates in the
3 future. And I don't think that is bad for the -- for
4 software developers and I have a hard time seeing why
5 there is such resistance to this concept, which is
6 grounded in the plain text of the statute that, one,
7 copies are material items and, two, if I own the
8 material item, I own the copy.

9 I don't -- I have very much difficulty in
10 seeing the resistance to that, except for the fact
11 that by saying that you don't own the copy, that
12 brings up the RAM copies doctrine and it allows you to
13 put all kinds of restrictions and sort of gin up
14 copyright violations for what otherwise would be
15 routine contract violations. So those are my two
16 final points.

17 MR. DAMLE: So again, is it your position --
18 I mean, I'll ask you the same question I asked Mr.
19 Perzanowski before. Is it your view that both -- in a
20 sense, both *Krause* and *Vernor* had it wrong when they
21 suggested that there could be licenses for software?

22 MR. BERGMAYER: In the case that I don't own

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1 software, it's because I don't own the material item.
2 So when you're saying that I don't own the film, that
3 means I don't own the film stock. There's no third
4 way. There's IP rights and there's material copies.
5 There's no like ethereal copy that is somehow apart
6 from the material object and has nothing to do with
7 the traditional 106 rights.

8 MR. DAMLE: Yeah. No, I understand that
9 point. But both *Krause* and *Vernor* proceeded from the
10 assumption that there could be licenses in copies.
11 And they reached different results at the end of the
12 day, looking at the facts. But I think they both had
13 that same basic understanding.

14 MR. BERGMAYER: So I think to use the
15 helpful terminology, in any of those cases, if you're
16 saying that I've licensed a copy, what you're saying
17 is that the material object is something that I don't
18 really own because I'm just borrowing it or something.
19 And that's fine and that's not unique to software.

20 MR. DAMLE: All right. Thank you.

21 MS. CHOE: We'll conclude with Mr.
22 Perzanowski.

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1 MR. PERZANOWSKI: I'll try to be really
2 brief. So I want to come back to the point that Chris
3 made, which I think is really important. And I agree
4 that for the most part, these kind of false
5 advertising concerns that I've raised are legally
6 distinct from the kinds of questions that we're trying
7 to answer here.

8 There is one way that I think they're
9 relevant and it comes back to a point I think you made
10 earlier, which is that one of the reasons that the
11 software cases seem to come out differently from the
12 other kinds of license versus sale questions with
13 other types of media is that maybe we think there's
14 something different about business practices, about
15 the history and about consumer expectations in
16 software markets.

17 I'm not entirely convinced of that argument.
18 If that's true though, it cuts both ways, right? If
19 consumers are used to licenses when it comes to
20 standalone software, they're not used to licenses when
21 it comes to refrigerators, right? So we should think
22 about that line of reasoning not only in terms of how

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1 it applies looking backward, but in terms of how it
2 applies looking forward into areas where consumers
3 have no expectation whatsoever of licensing and where
4 there is no history of a practice of licensing.

5 To come back to Keith's point, the great
6 thing about doing empirical research is you don't have
7 to suppose or imagine. You get like answers to
8 questions. And it turns out that young white men are
9 in fact more confused than anyone about what the buy-
10 now button means.

11 And it turns out that providing a bullet-
12 pointed short notice significantly reduces the degree
13 to which consumers misunderstand their rights. The
14 paper's up on SSRN, if anybody's interested. I'd
15 recommend you read it because I do think there's value
16 from having real evidence and not just imagining the
17 way the world might be.

18 MS. CHOE: Great. So we're going to take a
19 15-minute break.

20 MS. ROWLAND: I think maybe we should
21 shorten it a little bit.

22 MS. CHOE: Oh maybe we should -- yeah.

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1 MS. ROWLAND: What time is it now? Maybe we
2 should just take a 10-minute -- actually, maybe nine
3 so we'll be back at 11:50.

4 (Whereupon, the foregoing went off the
5 record at 11:41 a.m., and went back on the record
6 at 11:50 a.m.)

7 MS. ROWLAND: This next panel is going to be
8 on fair use. And I think it's going to be a little
9 abbreviated due to the length of the earlier panel.
10 But originally, it was supposed to be in the next
11 panel, but we realized it was such a large issue, we
12 wanted to separate it out. So I think it should work
13 fine this way.

14 Fair use is obviously a very important
15 defense in copyright law. And we've seen it raised in
16 a lot of different contexts with computer software.
17 And in this panel, we really want to narrow it to
18 everyday products and embedded software. But
19 obviously, that is informed by fair use law overall.

20 So I want to open the panel with a broad
21 question about is fair use functioning well in
22 connection with these types of products and software.

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1 Does anyone have any views on that? Okay, Mr.

2 Harbeson?

3 MR. HARBESON: I am also one of the non-
4 lawyers on this panel, and so, someone feel free to
5 correct me if I'm wrong. But as I'm understanding it,
6 to the extent that the licenses are restricting uses,
7 fair use isn't relevant until you clear the contract
8 violation.

9 So for example, to again take my completely
10 out of software world example, if I wanted to use Mr.
11 Dudamel's recording of his work in a way that
12 constitutes a fair use, perhaps I would not be subject
13 -- I would not be able -- I would not have a copyright
14 violation perhaps. I don't -- that's my sense, is
15 that I wouldn't perhaps have a copyright violation.
16 But I would still be in violation of the contract,
17 even if it's a non-infringing use.

18 So we would love for fair use to apply. If
19 fair use did apply in the context of end-user license
20 agreements in general, I think that would be great.
21 But I'm not sure if it even does. So please someone
22 correct me if I'm wrong.

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1 MS. ROWLAND: Mr. Zuck?

2 MR. ZUCK: I'll reiterate that I'm not a
3 lawyer. So I won't be able to correct you on that,
4 although I would -- it's a weird echo -- I think that
5 it generally does apply in those contexts or that it
6 has. And I guess the interesting phenomenon that I've
7 found as a photographer and filmmaker is that fair use
8 has come to mean to the common man: I'm not trying to
9 make money from this, and therefore it's fair use.

10 And so, there is some misconception though I
11 think about fair use out in the broader populace for
12 sure. But I think the cases with which I'm aware of
13 embedded software like Landmark and things like that,
14 I think that the courts have ruled in a way that is
15 generally considered to be the correct way on this
16 issue, even though those cases were raised as extreme
17 uses of copyright.

18 It seemed like the specific exemptions that
19 were laid out in the DMCA, which is a little bit of
20 legislative fair use in some respects, have been
21 effective. So it's certainly my contention that fair
22 use, to the limited degree we have data at this point

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1 about its use in embedded devices, has been effective.

2 MS. ROWLAND: Mr. Band?

3 MR. BAND: So, we'll know whether fair use
4 is effective in this area more in, I don't know, a few
5 weeks when the jury reaches its decision in the *Oracle*
6 *v. Google* case, because even though that's not dealing
7 specifically with software-enabled products.

8 I mean, it's talking about the Android and
9 the APIs there. And I guess Oracle is only seeking
10 \$8.8 billion of damages. So hopefully the jury will
11 reach the right decision and find that it is a fair
12 use.

13 But of course, in my view, it shouldn't have
14 even gotten to the jury. I mean, I think the district
15 court got it right that the issues, the elements of
16 the APIs used by Google were not protected by
17 copyright in the first place.

18 I think the Federal Circuit made a horrible
19 mess and a lot of what the Federal Circuit -- both its
20 holding, but even worse its dicta causes -- will cause
21 enormous problems down the road for people who want to
22 make interoperable devices by basically saying that

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1 interoperability is not -- has nothing to do with
2 protectability, means that you're always going to be
3 pushed into the fair use analysis if other courts
4 agree with the Federal Circuit, which hopefully they
5 won't.

6 I think it was a terribly -- a terrible -- I
7 mean, I'm talking like someone else. It's a huge,
8 huge, huge problem caused by the Solicitor General by
9 urging the -- by advising the Supreme Court not to
10 take cert. The Supreme Court should have taken cert.
11 in that case and it's unfortunate that the Solicitor
12 General basically said that the Federal Circuit
13 decision was okay.

14 And I think that hopefully the next time
15 this comes up, the solicitor general is more forward
16 looking and makes sure to the extent that this does
17 come up before the courts, that the U.S. government
18 takes the right position.

19 MS. ROWLAND: And Mr. Bergmayer?

20 MR. BERGMAYER: Yeah. So you know, take
21 everything I said before. There's a lot of issues
22 where I think you shouldn't have to resort to fair use

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1 to adjudicate certain problems. So then let's say I
2 lose those battles legally.

3 So then, what happens? And it's like, yes,
4 well, I hope that fair use is sort of a fallback
5 doctrine and can step in to protect consumer rights in
6 certain circumstances. That aside though, I do think
7 that fair use in software is extremely important for
8 just a number of respects.

9 I'll just name one, which is security
10 research. I think part of the embedded software
11 debate is the internet of things debate, where every
12 device is attached to the internet and is subject to
13 being hacked.

14 I think probably everyone here is familiar
15 with the baby monitors which have been hacked and
16 people can remotely watch your baby over the internet
17 because of devices that ship with terrible default
18 security settings, where incidentally the sellers of
19 those devices disclaim liability via a software
20 license.

21 There is a doorbell incident where just last
22 week it turns out that a smart doorbell system was

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1 accidentally giving people -- showing people the wrong
2 house. That was a server-side error.

3 But nevertheless, I think in the case of
4 software, we really do need to sort of have a robust
5 understanding that security researchers through
6 whatever copyright doctrine, including fair use, are
7 entitled to inspect software, to ensure that it is not
8 putting people at risk.

9 And I'll just name another software-related
10 copyright issue where I think fair use has some role
11 to play, which is just the notion of as the tools that
12 people use for creation become increasingly
13 sophisticated -- for example, with computer animation
14 where you're provided models and then people just sort
15 of use the models as if they are puppets.

16 Sometimes this is called machinima where
17 people are using essentially videogame characters to
18 act out plays and then record them. You have a very
19 tough question of who is the author. I think it's
20 pretty clear that if I write a sonnet on a piece of
21 paper, the pen and the paper companies don't have an
22 authorship claim in my work.

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1 But as software tools that people use become
2 increasingly sophisticated, they sometimes claim to
3 have an IP interest, an actual authorship interest in
4 anything that you create using that software tool. I
5 think that is a troubling trend and it's not something
6 that I don't think we can resolve today. But I think
7 fair use, at least at the margins, will be necessary
8 to resolve issues like that.

9 MS. ROWLAND: Mr. Bockert?

10 MR. BOCKERT: I think Mr. Bergmayer's
11 absolutely right in the idea that fair use is a
12 defensive last resort. And I'm thinking of all the
13 times that clients call , and if your explanation to
14 them is that they're not infringing someone's
15 copyright because this qualifies under fair use, then
16 they ask the question: can we rely on that? And the
17 answer is almost always: maybe, and it's going to be
18 an expensive fight if it comes to it.

19 And so, I think the idea would be we can
20 have fair use, sure. But I think we need specific
21 exemptions and clear guidance like how the first-sale
22 doctrine applies in this context. I was talking

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1 earlier about the doctrine of repair and the doctrine
2 of exhaustion in patent law. And things like that
3 would more clearly show us what is considered a non-
4 infringing use of software in these sorts of products.

5 And then, on a separate side, at least in
6 consumer products, a copyright infringement claim
7 under 106 is almost always paired with a claim under
8 1201. And I know we're not supposed to be really
9 talking about 1201 very much here, but it's hard to
10 talk about how copyright impacts software-enabled
11 consumer products without addressing it.

12 And the fair use point is a good one -- is a
13 good place to bring it up because fair use clearly
14 helps you out under 106. But it doesn't clearly
15 provide a defense under section 1201. And I think
16 that's mostly because of the circuit split on whether
17 you need a nexus to infringement on the anti-
18 circumvention claims. And so, with a lack of clarity
19 there, we could probably consider those issues in the
20 context of --

21 MR. DAMLE: Right. But we do have a 1201
22 rulemaking where we address -- at some level, we

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1 address fair use issues. We address issues under 117
2 in the course of getting to adopting exemptions. And
3 particularly in the auto context, we recently adopted
4 -- the Librarian recently adopted exemptions allowing
5 vehicle repair. So I mean, is that a problem that can
6 be solved through the rulemaking process, the
7 exemption process?

8 MR. BOCKERT: Well, I think those would be
9 separate discussions and I think that that's why
10 whatever is resolved here is dependent on what's
11 resolved there. I know we're trying to keep the
12 concepts separate and distinct, but I think that they
13 should influence each other.

14 MR. DAMLE: But so, but I mean, to go -- to
15 focus on sort of the fair use point, I mean, to the
16 extent that we -- to the extent that the Copyright
17 Office and the Librarian opine on fair use issues in
18 the course of granting or denying exemptions, is that
19 something that you feel like you can sort of take to
20 clients to say here's what the Copyright Office thinks
21 about these issues in the fair use context?

22 MR. BOCKERT: I think it's difficult to take

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1 without some qualification. You know, we look at the
2 section 1201 ruling, rule 21 that's dealing exactly in
3 the automotive industry, and it does say things --
4 like it says something along the lines of "these uses
5 may be fair uses under 107 or it may be a non-
6 infringing use under section 117."

7 And sure, that's something that's good to go
8 to a client and say there may be some support here, in
9 this rule in a totally different context. But how you
10 import that to 106 -- this is very clearly something
11 under 107 that you can build your business on? I
12 think that's a different question.

13 MS. ROWLAND: Mr. Lowe?

14 MR. LOWE: So I want to build on Mr.
15 Bergmayer's point of the importance of being able to
16 research software and that -- I mean, look at the
17 Volkswagen case, where if you couldn't go into that
18 software and understand where the problem was, you
19 never would have discovered that there was a major
20 issue with the way Volkswagen had configured its
21 software.

22 Our industry goes into parts all the time

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1 and -- OE parts and deconstructs them and finds where
2 there are problems, defects, issues with the original
3 part, correct them. And when the part is sold as an
4 aftermarket part, it has now a corrected issue on it
5 and is safer or more environmentally responsible than
6 the car -- the part that came from the vehicle
7 manufacturer.

8 So it's a really important part of the fair
9 use doctrine.

10 MS. ROWLAND: And so, are you happy with the
11 way the courts are treating fair use with reverse
12 engineering of software to repair things and whatnot -
13 - and just repairs?

14 MR. LOWE: Yeah, and I think that that has
15 to be -- it has to be clear that that is available to
16 be done.

17 MS. ROWLAND: How would you suggest that
18 being clarified? With legislation? Like with what
19 sort of changes?

20 MR. LOWE: Oh, no. I'm not sure legislation
21 would be necessary. But I'm also not a lawyer so -- I
22 think this whole table -- this side of the table is

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1 shortchanged on lawyers.

2 MS. ROWLAND: Oh, Mr. Kupferschmid is a
3 lawyer over there.

4 MR. BERTIN: That's not necessarily a bad
5 thing.

6 MS. ROWLAND: Mr. Perzanowski? Oh, I'm
7 sorry. Mr. Harbeson?

8 MR. HARBESON: So I want to clarify
9 something I said earlier and just to make sure that I
10 was not saying that I didn't think that fair use
11 applied. I think that the problem is not that fair
12 use doesn't apply, and I've been hearing a lot of
13 examples of things that I think are easily -- and the
14 courts to the extent that I've been following
15 software, have applied fair use.

16 The problem with -- as I understand it, with
17 fair use and software-enabled consumer products and
18 any software is that you have to find yourself within
19 the scope of title 17 before you can use fair use. At
20 least that's my understanding.

21 The conventional knowledge anyway is that a
22 contract will override those. And so, I still kind of

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1 see the problem with fair use. My feeling was that
2 the reason that fair use is being talked about here is
3 because of the conflict between what is fair use once
4 you're within the scope of title 17 versus what
5 software licenses tell you is not okay.

6 And so, can you actually apply fair use when
7 the license that you signed is not? And if fair use
8 is a defense against a breach of contract, then I can
9 go home because I can tell -- I could tell my
10 membership that we can rely on fair use. But I don't
11 think that we can.

12 And so, we would be very happy if we could
13 rely on fair use to make the works that we're trying
14 to get access to available.

15 MR. BERTIN: So I mean, the premise, I
16 guess, is that you have essentially been required or
17 you have agreed to fair use by contract. Is that what
18 you're saying?

19 MR. HARBESON: Well, right. Even -- let's
20 pretend for a moment that libraries could enter into
21 the agreements that I'm talking about, which are not
22 unlike the software licenses. There's very similar

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1 language in iTunes that you'll find in software. And
2 I actually -- I read these software agreements a lot.
3 So I've seen a lot of similarity.

4 Once you agree to that license, you're
5 waiving the right to do things that fair use would
6 permit you to do. And the same thing is true with
7 109, which we'll get to later. But so I think a lot
8 of the problem is in that conflict between what would
9 -- what would clearly be a fair use and then what
10 you're agreeing to by a non-negotiable contract not to
11 be allowed to do.

12 So again, we would be very, very happy to
13 argue fair use for the things we want to do. I think
14 that many of the examples that were brought up, it
15 would be a very easy case. But I'm not even sure we
16 can get to a fair use question until we resolve this
17 problem with not even being subject to title 17.

18 Our proposal is for a quasi-copyright
19 provision within the copyright law which is -- I mean,
20 there's precedent for in chapters 11 and 14 that would
21 give us a very narrow exclusion from the copyright --
22 from the contract in the case where something is not

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1 made available.

2 Something similar could be drafted for
3 software. But I really think that as long as we're
4 talking about fair use and not talking about the
5 contracts, we're missing the point.

6 MS. ROWLAND: I'm sorry. I realize that
7 other people have their cards up. But I wanted to see
8 if Mr. Kupferschmid or Mr. Zuck had any thoughts on
9 that from -- about the intersection of contract law
10 and fair use and how they work together or do not.

11 MR. ZUCK: Well, I guess there's two levels
12 to that question, one that's innately legal, but I'm
13 probably unqualified to answer, and another that's
14 more practical. And the first thing that struck me
15 when listening to you is that I'm not completely sure
16 of the intersection between library use and fair use,
17 right?

18 It's a little bit of a different kind of use
19 than at least the things that I'm familiar with in the
20 context of fair use. But I also think as a practical
21 matter that there have been many license agreements
22 that have been violated and that have been -- that the

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1 basis for the enforcement of that contract was in fact
2 copyright and that therefore the license was obviated
3 in favor of fair use.

4 So I feel like fair use has taken precedence
5 more so than not over contract of license provisions
6 as far as I can tell, as a practical matter. Now
7 whether or not that's innately the case, I don't know
8 the answer.

9 Maybe I'm under-informed, but I feel like
10 the provisions of law that have to do with library-
11 type functions are different than the ones that have
12 to do with fair use, that have to do with making use
13 of a particular copyrighted work. And so, maybe I'm
14 just confused about that and I apologize if I am.

15 MR. KUPFERSCHMID: So I think it seems like
16 at least in this discussion we've gotten a little far
17 afield from the discussion about embedded software in
18 everyday consumer products.

19 And so, and to a more general discussion of
20 fair use or whether APIs are protectable or who's the
21 author of machina and a whole bunch of other things.
22 And a lot of these issues do come down to, and I think

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1 probably will be discussed in more detail in the 1201
2 study I think because that's I think where fair use
3 probably comes in -- is more at play, as evidenced by
4 your questions about the triennial rulemaking and what
5 have you.

6 Mr. Harbeson mentioned the fact that,
7 whether fair use is a defense against contract, I
8 don't think that's what we were talking about on the
9 first panel. I don't know if that's what he was
10 referring to or not. But we were talking about
11 whether if a court held there to be fair use. But
12 your contract said that you could not engage in fair
13 use, whether that would be a copyright infringement,
14 which is different -- which is a different question.
15 So I think we just needed to clarify that.

16 MS. ROWLAND: Thank you. And I think Mr.
17 Perzanowski?

18 MR. PERZANOWSKI: So I just wanted to note
19 the ways in which I think this discussion about fair
20 use is related to the discussion we had on the last
21 panel, right? So fair use and this question of
22 ownership are sometimes intertwined in interesting

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1 ways. And you can look back at some fair uses cases
2 where I think you can see this really clearly.

3 I think the most clear example is the *Galoob*
4 case. In the *Galoob* case, the court talks in really
5 explicit terms about ownership. It discusses the
6 single recovery theory that undergirds exhaustion.
7 And it talks about the right to modify a product that
8 a consumer owns once it has been sold.

9 There are other cases where I think you can
10 see this same kind of focus on the question of
11 ownership at work in the fair use analysis itself.

12 I think if you compare the rationales and
13 outcomes in *Sega v. Accolade* and *Atari v. Nintendo*,
14 ownership is also at work in the background there.
15 And I've written about this at some length. And I
16 think part of the reason you see ownership
17 considerations kind of sneaking into the fair use
18 analysis -- sneaking in isn't the right word.

19 I don't think it's inappropriate for courts
20 to consider additional factors beyond the four
21 statutory factors. But we don't expect to see
22 ownership come up in that context. And I think it's

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1 because courts have been uncomfortable relying purely
2 on the kind of exhaustion doctrines in 109 and 117 for
3 the reasons that we were talking about before. So
4 there's an interplay between these two sets of
5 questions.

6 I wanted to come back to a point that John
7 made earlier about security testing. About a decade
8 ago, I represented academic security researchers who
9 were working on the Sony BMG rootkit scandal that I'm
10 sure many of you remember. And I can say firsthand
11 how worries about copyright infringement liability
12 influence the decision to undertake research, the pace
13 at which that research is executed and decisions about
14 when and how that research is disclosed to the public.

15 So I think it's crucial that we have some
16 greater degree of clarity, not only for individual
17 consumers, but people who are doing research on
18 consumer products because frankly, fair use is not
19 providing lawyers with the kind of certainty that they
20 need to communicate to clients in order to make sure
21 that this really important work happens.

22 MR. DAMLE: So I'm sorry to keep mentioning

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1 1201 -- I know there's another study about that -- but
2 I mean, just going back, it's sort of a version of a
3 question I asked Mr. Bockert, which is, in the last
4 rulemaking, we adopted an exemption for security
5 research. And to sort of refine the question, the
6 premise of us granting that exemption is that the
7 activities covered by the exemption are in some way
8 non-infringing.

9 And so, so there is some, at least, guidance
10 from the Copyright Office and from the Library about
11 what activities it considers to be non-infringing at
12 some level. And so, I'm just curious why researchers
13 couldn't rely on that assessment.

14 MR. PERZANOWSKI: I would not be comfortable
15 going into court and litigation and saying the
16 Copyright Office said this was a fair use. I don't
17 think that's going to get you very far, right? That
18 is not a sufficient basis for drawing the conclusion
19 that a particular use is fair.

20 And I don't think that those -- from what I
21 recall from the rulemakings, we don't get crystal
22 clear statements that these are in fact fair uses,

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1 right? In fact, we get understandably and I think
2 with good reason, cautious statements about how we
3 should interpret these kinds of behaviors.

4 The other thing that I would say about the
5 rulemaking -- and I participated in that process back
6 in the 2006 rulemaking and we got an exemption for --
7 a very narrow exemption for security research related
8 to DRM on music CDs that created risks for security.
9 And talking about looking at the problems of
10 yesterday, by the time we got that exemption through,
11 it served no function, right? It didn't do anything
12 at that point.

13 So the rulemaking process is necessarily a
14 backward-looking process. And I can understand why I
15 think the Copyright Office has been understandably
16 demanding in terms of the evidentiary record that it
17 requires in terms of a showing of concrete harm before
18 an exemption is issued.

19 But in many cases, especially when we're
20 talking about software, right, which we know is this
21 fast-moving industry where things change quickly, the
22 rulemakings have not resulted in the kind of forward-

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1 looking clarity that I think is often necessary.

2 MS. ROWLAND: I would like to ask a follow-
3 up question about that and your discussion of fair use
4 and the uncertainty. I don't think that that is
5 really unique to software. So the whole point of fair
6 use is to be flexible and it's fact-specific so it can
7 address each case on its merits. So if the whole
8 problem is uncertainty, what would you suggest?
9 Because is fair use not going to be sufficient in your
10 opinion or --

11 MR. PERZANOWSKI: Yeah. So I think the way
12 that you address that uncertainty is by fixing the
13 problems that we talked about in the prior panel. So
14 again, fair use is going to be kind of the defense of
15 last resort in these kinds of cases.

16 If the standard for what counts as ownership
17 is clarified and people can rely on 117, for example,
18 I think that addresses many, although not all of the
19 circumstances where we might otherwise be telling
20 clients to focus their efforts on fair use.

21 MS. ROWLAND: Thank you. Mr. Band?

22 MR. BAND: So I just want to build on what

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1 Mr. Harbeson was saying in bringing it back to
2 interoperability and fair use in the context of
3 software-enabled products. So as we had talked about
4 in an earlier panel, many license -- software license
5 agreements do have a prohibition on reverse
6 engineering. And then, the question is, is that
7 prohibition enforceable or is it preempted or is it
8 somehow seen as a contract of adhesion and not
9 enforceable for that reason or what.

10 But the point is, is that there are
11 certainly in the computer industry -- you typically
12 see these contract restrictions. Now, it could very
13 well be that so far in the automotive industry that
14 hasn't been a problem, and so it hasn't been sort of
15 therefore -- like a problem in the 1201 rulemaking
16 context in this last triennial cycle. But it
17 certainly isn't -- I could certainly imagine it and I
18 don't want to give the automotive industry any ideas.
19 I mean, the car manufacturers any ideas. I'm sure
20 they've thought about this.

21 But it could very well be that, maybe in the
22 near future, when you're signing that stack of papers

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1 when you're buying the car, and there's a lot of
2 papers that you're just routinely signing, that it
3 could very well be that there will be in that stack of
4 papers some software license agreement that then will
5 cause all the problems that we haven't seen yet.

6 Right now, so now, it's a fair use problem.
7 Can you engage in the reverse engineering necessary to
8 make the replacement part? But I could see in the
9 very near future that it will also be a license
10 problem, not just a fair use problem.

11 And so, again, I think the opportunity of
12 the study here is to sort of get ahead of the curve
13 and see what's coming down the road and say, well
14 okay, how do we make sure, because you're -- certainly
15 in the automotive -- we're talking about a huge
16 aftermarket in the automotive industry.

17 And then, if you include agriculture and
18 yachts and everything else, you're talking -- I mean,
19 the aftermarket generally is an enormous area and as
20 more software is included, this -- whether it's fair
21 use or a contractual restriction on reverse
22 engineering, this problem is going to be -- only going

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1 to get bigger, not smaller.

2 MS. ROWLAND: Thank you. Mr. Bockert?

3 MR. BOCKERT: So I take it, where this is
4 going is: is fair use enough? Does that resolve all
5 of the concerns that we have talked about in our first
6 two panels, and probably will talk about in the fourth
7 one? And I think the answer has to be no.

8 We want to clarify that certain things
9 qualify as non-infringing uses and we don't want to
10 rely on just advising clients that this is probably a
11 fair use and then pointing to very fact-specific cases
12 that are probably distinguishable in some ways from
13 the ones at hand. So I think the answer is no, fair
14 use is not enough.

15 MS. ROWLAND: I find that kind of
16 interesting because earlier Mr. Lowe was saying that
17 he was happy with the way fair use was going with the
18 repair and the reverse engineering. I wonder if you
19 had any other thoughts.

20 MR. LOWE: Well, I mean, this is the big
21 issue that Mr. Band brought up is that we're moving
22 down a road where we're -- the situations are

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1 changing. And what I said was that I wasn't clear as
2 a lawyer that we're satisfied with -- we were
3 satisfied with that per se but I think the issue that
4 was brought up by Mr. Bockert is true, that we need to
5 resolve all these issues before we get to fair use and
6 that we brought up in the last panel.

7 MS. ROWLAND: Thank you. Mr. Zuck?

8 MR. ZUCK: Yes, two things. One, just
9 again, just a matter of fact, I think the DMCA is at
10 least a step in the direction of having decided things
11 in a very direct way legislatively, that you're not
12 just reliant on looking at fact-specific cases
13 describing fair use.

14 There are specific practices in the DMCA
15 that are outlined as being okay and non-infringing
16 uses. So it seems to me that there's already
17 something in place that's had good effect. The other
18 question, again taking a step back from this, is that
19 --

20 MR. DAMLE: I'm sorry. So you're --

21 MR. ZUCK: Oh, sorry.

22 MR. DAMLE: -- you're talking specifically

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1 about the reverse engineering? Like the permanent
2 exemptions? Is that what you're talking about? Like
3 as being sort of guidance about what's --

4 MR. ZUCK: That's right. There's 10, I
5 think, exemptions in there that educational purposes,
6 for interoperability, security is one, et cetera.
7 Those things are built into the DMCA from the get-go
8 legislatively. And so, it doesn't -- you're not
9 reliant just on fair use as a judicial precedent.
10 Okay?

11 So the other issue that -- I don't know the
12 best way to put this. But there's a kind of
13 presumption that if I have some new idea, it should be
14 okay and it's bad that the answer might be no. And I
15 guess I don't mean to be the Grinch in the room, but
16 as the copyright holder, I'm okay with the default
17 answer being no. I think it should be the exception
18 and not the rule that if some new use is fair use.

19 And so, I think that we need to take a step
20 back and that we have a decision like the *Dr. Seuss*
21 decision that it in many ways speaks to this notion
22 that you're using my copyrighted characters to create

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1 some new work that I have some downstream implication
2 to their use.

3 There's a huge market for 3D models that are
4 used in films and things like that that you license
5 under different licensing terms for different types of
6 commercial and non-commercial use.

7 It's not as mystical as it's being
8 portrayed. What's mystical is I think I've come up
9 with some creative, new way to get around the way that
10 this has been interpreted in the past. You, Mr.
11 Lawyer, do you feel like you could defend this, and
12 the answer is I don't know. I think that 99 percent
13 of the time, the answer is far more clear and that the
14 answer is in fact no and I'm comfortable with that.

15 And I don't think we should necessarily shy
16 away from the fact that the de facto answer is that
17 the copyright holder should have the last say and not
18 my new creative use for someone else's work.

19 MS. ROWLAND: Mr. Bergmayer?

20 MR. BERGMAYER: Yeah. So there's even among
21 people who are broadly aligned with me on copyright
22 issues, there's sometimes disagreement about fair use

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1 versus clear safe harbors because the challenge is if
2 you list out a bunch of clear safe harbors, then the
3 fear would be, well, people will always confine their
4 behavior just to those safe harbors or a judge might
5 find a behavior that falls just outside a safe harbor
6 as more likely to not be a fair use.

7 However, I think just as a practical matter,
8 I think it's pretty clear that certain kinds of
9 behavior ought to just be considered very clearly to
10 be non-infringing either through an extremely clear
11 and universally applicable fair use precedent or
12 through a statutory safe harbor or otherwise. And
13 sort of even with the downside that it might sort of
14 cause people to shift their behavior slightly to
15 conform with the safe harbor, I think the upside will
16 probably be good.

17 That being said, I also think in the
18 embedded software context in particular, there's other
19 doctrines which already exist which often get short
20 shrift. I brought up in an earlier panel
21 functionality. I think some embedded software, the
22 functionality or idea expression might make it not

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1 copyrightable, or at least you wouldn't be able to
2 challenge someone who makes another piece of software
3 doing the same thing because there's no other way to
4 do it.

5 MR. DAMLE: So, sorry. You're talking about
6 like merger and scènes à faire.

7 MR. BERGMAYER: Merger doctrine, yes.

8 MR. DAMLE: Yeah.

9 MR. BERGMAYER: Exactly. I think in some of
10 the most extreme cases of very simple software and a
11 microcontroller that's just doing a physical function,
12 I think those doctrines, which often don't get any
13 discussion at all in like artistic works' cases might
14 actually be very important. I think de minimis use,
15 that's a doctrine which almost -- which almost never
16 gets litigated. But I think that also might be
17 applicable in some circumstances. So that's it.

18 MR. BERTIN: So you said that there were
19 some uses or activities that you feel should be
20 considered to be fair use across the board
21 categorically. Are there any in particular with
22 respect to software in embedded devices that come to

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1 mind?

2 MR. BERGMAYER: Well, the example was
3 brought up before of security research, which
4 typically comes up in the anti-circumvention
5 circumstance as opposed to the infringement context.
6 I think that is a very clear example where security
7 research ought to categorically be non-infringing. I
8 think you can do it with a statute. You can do it
9 with a very clear precedent that just makes broad,
10 sweeping statements that like anyone can rely on
11 because they're crystal clear.

12 But I think we need to have that result and
13 we need to not just sort of have it just be a very
14 fact-specific endeavor as to whether or not security
15 research is okay now but not in this circumstance,
16 things of that nature. I haven't prepared an
17 exhaustive list of things that I thought ought to be
18 categorical fair uses. I'm sure I could come up with
19 a very long list if you asked me to.

20 MR. DAMLE: I mean the precedent point is an
21 interesting one, right, because precedent requires
22 there to be someone who litigates. And if there's

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1 sort of just a general understanding that security
2 research, for instance, is fair use, you're not going
3 to get that precedent.

4 But at the same time, it's going to be clear
5 enough just based on industry practice that it is
6 because lots of people do it and no one sues. So is
7 that -- I mean, is the absence of like that kind of
8 litigation sufficient?

9 MR. BERGMAYER: In our very litigious
10 society, I have trouble with the idea that there is a
11 theoretical legal right out there that someone could
12 use to sue someone that they object to for commercial
13 reasons, but we don't have to worry about it because
14 no one's ever used it before. I mean, all these
15 things are not problems until they are. So --

16 MR. DAMLE: But there is a lot --

17 MR. BERGMAYER: -- as long as there is a
18 legal overhang, even if there's not litigation, there
19 might not be litigation because people are avoiding
20 engaging in the behavior that could lead to
21 litigation.

22 So I simply don't think that the absence of

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1 litigation is evidence that there's not a problem,
2 because it could still be affecting people's behavior.
3 But I think you might better be talking to people who
4 actually interact with clients on a more direct basis
5 than I do to get a better answer to that question.

6 MR. DAMLE: I mean, but to take the security
7 research example specifically, I guess -- I guess you
8 could argue that there's sort of marginally less
9 security research than if we had a clear precedent.
10 But there is security research that goes on now.

11 I mean, we had people testify in the 1201
12 hearings -- again, sorry to mention 1201 -- about the
13 research they did on automobiles, right? Charlie
14 Miller came to testify about that. And if Chrysler
15 wanted to sue, they could have. And they didn't. And
16 I think at least that gives you like one data point in
17 the absence, sort of in terms of --

18 MR. BERGMAYER: I believe there were threats
19 of litigation in the recent -- in the Jeep case, where
20 the researchers demonstrated vulnerabilities of
21 remotely turning off a car that was on the road. And
22 those went away because there was such public

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1 attention to that issue. And often, security
2 researchers are the kind of people who might welcome
3 being -- it's a type that engages in that behavior.

4 But I don't think we should rely on the sort
5 of bravery and bravado of security researchers who are
6 willing to sort of stand up to the man on a continual
7 basis. I think these things just ought to be accepted
8 parts of society that simply don't carry legal risk at
9 all because they are so important.

10 MR. PERZANOWSKI: If I can just add to that
11 briefly and specifically in the academic context,
12 while security researchers themselves might be willing
13 to take risks, university general counsels are not
14 known for being big risk takers. And their
15 willingness to back researchers who are engaging in
16 work that might draw litigation is rather limited.

17 And so, you see that influence not only the
18 choice of specific research projects to undertake, but
19 the long-term trajectory of people's career. What
20 kind of work are they going to do? What kind of
21 researcher are they going to be? And institutions --
22 academic institutions have a long memory for threats

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1 of litigation that they've received and that other
2 institutions have received. They share that
3 information. And I do think you have seen a change
4 not only in the quantity but also the nature of
5 research that goes on in that space.

6 MS. ROWLAND: Okay. We've got a couple more
7 people. I think Mr. Kupferschmid was next.

8 MR. KUPFERSCHMID: Yeah. Excuse me. I'll
9 be brief. I mean, it sounds like Mr. Bergmayer was
10 suggesting keeping the preamble we have in 107 and
11 getting rid of the factors. Maybe I misunderstood
12 what he was saying, in terms of just creating an
13 exemption for security research. So I apologize if I
14 misunderstood what you were saying.

15 But I think certainly whenever you talk
16 about fair use, it's very, very context-specific,
17 fact-specific. And we have to be very, very cautious
18 if we move in any particular direction in that area.
19 I know that at the Copyright Alliance, we represent
20 all sorts of different copyright owners and different
21 types of copyright disciplines. And they all rely on
22 fair use. And it's important to have a balanced fair

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1 use doctrine that takes into account all the
2 stakeholders' interests.

3 In particular, with regard to embedded
4 software, I don't know that those issues are any
5 different and I think that's why it's led to a
6 discussion here that's gone on well beyond embedded
7 software and focused primarily on things like 1201 and
8 ownership and copyrightability and things like that
9 because I don't think there's anything specific with
10 regard to the fair use doctrine, either pro or con,
11 that's specific to the embedded software in consumer
12 products.

13 MS. ROWLAND: Mr. Harbeson?

14 MR. HARBESON: So I apologize. I'm still
15 trying to figure out why we're talking about specific
16 uses when really, as has been said, the fair use
17 doctrine is always going to end up being applied by
18 the courts anyway. I will say though that a lot of
19 the conversations that we're having are familiar to me
20 in the library context. So I think it might be worth
21 considering ways in which this has been discussed
22 before.

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1 When you're talking about potential safe
2 harbors, things that are automatically acceptable, you
3 can look at section 108, which gives libraries
4 specific things that we can do.

5 It is also hopelessly out of date. And not
6 only is it hopelessly out of date, but the library
7 community, for the most part, is not advocating
8 bringing it up to date because to bring it up to date
9 is, first of all, to start getting at the problem of
10 risking creating a ceiling rather than a floor, even
11 though, as in *Georgia State* and in *HathiTrust*, they
12 specifically said, no, it's not -- it is a floor.

13 But the problem with creating these safe
14 harbors is in the details of the wording. I have not
15 found Congress' ability to create succinct legislation
16 optimism producing. So I think that one should be
17 careful with the safe harbor idea.

18 Also in the de minimis doctrine, which was
19 brought up, I would caution that if you look at
20 *Bridgeport Music*, the court said two notes might be de
21 minimis, but there isn't much of a de minimis doctrine
22 in sound recordings.

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1 So, and then finally, I'm really worried
2 about -- since everyone else has had a pass on 1201,
3 I'll take my pass right now and talk about 1201(c),
4 which is another case, a precedent for what my
5 principal concern is.

6 It's another example of where you can't
7 quite get to fair use because you have to cross that
8 fence that is 1201 first. Once you're on the other
9 side of the fence, you can claim fair use. But you
10 still have violated the law by crossing that fence
11 into fair use territory.

12 So call it 1201, call it licensing, it's
13 that fence that is really going to be the problem
14 here. And I know I've been beating perhaps a dead
15 horse, but I really think that that's a really
16 important horse to get rid of. So thank you.

17 MS. ROWLAND: Thank you. Mr. Band?

18 MR. BAND: So I'll agree here with Mr. Zuck.
19 I think that section 1201(f), in particular the
20 interoperability exception in the DMCA articulated a
21 very strong policy in favor of interoperability. And
22 in the report language that went along with it, it

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1 cited *Sega v. Accolade* and the importance of
2 interoperability in the software industry and how it
3 promotes competition. All that was, in my view, very
4 clear.

5 I think also in the various recommendations
6 the Register has made in the 1201 context, they've
7 also sometimes used that language that there was a
8 strong federal policy in favor of interoperability.
9 Now, to some extent, it's hard to find those
10 references because it's buried in a 300-page
11 recommendation.

12 MR. DAMLE: We're just trying to be
13 thorough.

14 MR. BAND: Right, no. No, but -- and I
15 would very much hope that coming out of this study is
16 again a re-articulation, but in an easier way to find,
17 this very strong, clear federal policy in favor of
18 interoperability.

19 But where it relates specifically to this
20 issue is it does matter what is the theory under which
21 you have this policy. Is the theory a fair use theory
22 or is it, as John has been referring to merger or

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1 method of operation? I mean, this does get back to
2 the *Google v. Oracle* case.

3 If you were to say, okay, we're going to put
4 -- I think the better rule is that it is -- these
5 elements necessary for interoperability are under
6 102(b) not protectable, that you don't need to get to
7 fair use. And I think that that's the -- certainly
8 the Ninth Circuit case law gets you in that direction.

9 But to the extent that the Copyright Office
10 isn't comfortable saying that and it says, okay, this
11 is a 102 -- it has to be under -- you're going to pin
12 it under a 107 theory, I think even there, to say,
13 okay, yes, on the one hand, 107 is to be applied case
14 by case and on the other hand, like the Ninth Circuit
15 made clear in *Sega v. Accolade*, that fair use for
16 purposes -- reverse engineering for purposes of
17 finding elements that are not protected by copyright
18 is fair use as a matter of law.

19 And so, that's something that you can take
20 to the bank in other cases, that a lawyer can take to
21 the bank in other cases, as opposed to saying in every
22 single case you're going to have to kind of do this

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1 really complex analysis and start from the beginning.

2 And so, I think, again, that's somewhere
3 where the report that you come out here -- that can
4 really be helpful, not only on re-articulating the
5 strong policy in favor of interoperability, but also
6 coming up with a basis -- a helpful basis that can be
7 useful in the future to promote interoperability in
8 this environment.

9 MS. ROWLAND: Thank you, Mr. Band. And I
10 think with that, we're going to conclude our session.
11 I think right now we are scheduled to show back up at
12 1:30. Maybe we push it to 1:40, so you have one hour.
13 So we'll push the next session back 10 minutes, and we
14 will see you all back here at 1:40, or we hope to see
15 you all back here at 1:40.

16 (Whereupon, the foregoing went off the
17 record at 12:41 p.m., and went back on the record
18 at 1:42 p.m.)

19 MR. BERTIN: This session deals with
20 sections 117 and 109, and the topic we'll be exploring
21 is whether current limitations on and exceptions to
22 copyright protection adequately address issues

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1 concerning software embedded in everyday products or
2 whether amendments or clarifications would be useful.

3 I'd like to start with just a general
4 observation, from having reviewed all of the comments.
5 And while this is not a universal statement, it does
6 seem to be fairly common, that many of the commenters
7 either said that no changes were warranted or needed,
8 on the one hand, and others commenters said the same
9 thing but qualified it by saying that sections 109 and
10 117, properly construed, no changes are needed.

11 While that creates the appearance of
12 consensus, I suspect that somewhere in the middle
13 there is some level of disagreement, which hopefully
14 we'll get into this afternoon.

15 So I would throw that out as sort of an
16 opening question, a general question of whether
17 changes are needed or not. And if so, if changes are
18 needed in the interpretation of 109 or 117, what those
19 areas of interpretation are -- where they would be
20 helpful. So perhaps we could start with 109, if
21 anyone would like to jump in. Jonathan? Jonathan
22 Band, rather.

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1 MR. BAND: Sure. So I guess, sort of like
2 the threshold issue of, properly interpreted -- but
3 properly interpreted is -- if I were an Article III
4 judge, the world would be very different. But that's
5 -- I don't see that happening any time soon.

6 And I think, especially for ORI, we're very
7 focused on the specific problem of 109(a) and how it
8 applies to software-enabled products. And it seems
9 that between the -- what is an owner and what is the
10 proper scope of interpretation of 109(a) and all of
11 these contractual issues that we talked about, the
12 fact that you could just -- regardless of how courts
13 interpreted 109(a), you could still have contractual
14 restrictions on transfer.

15 So we just think as a practical matter, the
16 only way in the foreseeable future to really deal with
17 this issue -- with circuit splits and all the rest --
18 is to have something very short and sweet like YODA
19 and that would -- it wouldn't obviously solve the
20 entire problem. But it would solve one piece of the
21 problem.

22 MR. BERTIN: Mr. Perzanowski?

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1 MR. PERZANOWSKI: Yeah. So I would agree
2 that YODA is an important first step and does embody
3 some important principles. I would also agree that it
4 doesn't solve the whole problem. I think I would not
5 recommend any changes to the text of 109 or 117
6 relevant to the particular set of questions that we're
7 addressing today.

8 What I do think would be useful is a
9 definition in section 101 of owner for exhaustion
10 purposes, right, owner of a copy as it appears in 109
11 and 117 or a definition of transfer of copy ownership.
12 I think that is a crucial question. It is a question
13 that courts have answered in a lot of different and I
14 think inconsistent ways over the years. I think a
15 definition of ownership would provide some much needed
16 clarity, right? Who are we talking about here? We're
17 talking about consumers, for the most part.

18 How do consumers know whether they own the
19 things that they buy? I don't think it's a
20 particularly satisfying answer to tell them, well,
21 "here's a dozen cases decided by the Ninth Circuit and
22 the Federal Circuit and the Second Circuit and maybe

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1 you can make sense of this question." It's a really
2 fundamental question.

3 And so, I think it deserves some attention
4 here in terms of what that definition would look like.
5 If it were up to me, I would have a definition that
6 said that any time you had a transaction that was
7 characterized by a one-time payment and perpetual
8 possession, that is a transfer of ownership, right?
9 So that I think is the key question that we have to
10 answer here with respect to 109 and 117.

11 I also included in my written comments a
12 couple of references to the Canadian and Israeli
13 copyright acts and the way that they deal with the RAM
14 copy doctrine and temporary instantiations of works,
15 transient copying. I think there might be some
16 benefit from clarification from there as well.

17 MR. BERTIN: Mr. Band mentioned the You Own
18 Devices Act and suggested that would be a good -- I
19 think Mr. Perzanowski said it was a good first step.
20 What effect or impact, if any, does anyone anticipate
21 if that legislation was passed, what impact would it
22 have on innovation in the field of embedded software

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1 for devices? Mr. Kupferschmid?

2 MR. KUPFERSCHMID: So I think if the YODA
3 bill or something potentially similar or worse were to
4 be enacted, I think it would certainly adversely
5 affect the ability of software companies to license,
6 including the manner in which these software companies
7 license as well as their ability to enforce these
8 licenses.

9 As a result, it will be more challenging for
10 them to recoup their investment they make and to
11 develop new software products and to update existing
12 ones. It'll be more difficult for them to widely
13 distribute their software products to the public,
14 especially on a variety of different platforms that
15 consumers enjoy today.

16 The availability and scope of warranties
17 could be adversely affected as well. It almost
18 certainly would change their pricing structure,
19 certainly given the provisions on maintenance and
20 support that are in the bill.

21 And it could also allow competitors to get
22 access to their software more readily and therefore

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1 steal the software -- the underlying code and create
2 and sell cheap imitations because they will not have
3 the sort of R&D costs of the original software
4 company.

5 MR. DAMLE: So on that last point, why
6 wouldn't just a regular copyright infringement lawsuit
7 be sufficient then? I mean, YODA doesn't take away
8 the ability to bring an infringement suit.

9 MR. KUPFERSCHMID: So yeah, no I think -- I
10 mean, I think that's right. But like I said, it would
11 make it easier. So I don't think you want to be in a
12 position where you've changed your business model from
13 instead of creating and innovating to bringing
14 infringement suits either. And so, I think that's --
15 it becomes an issue of how do you police the software
16 and similarly --

17 MR. DAMLE: But do you think the licenses
18 are actually what are preventing that kind of theft?

19 MR. KUPFERSCHMID: I would hope to some
20 extent that that is the case. I mean, certainly, like
21 I said, we'll talk about 1201 tomorrow and that's part
22 of it. And I may be sort of joining two bills, the

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1 YODA bill and Farenthold's -- another draft that he's
2 been working on which would basically take away the
3 1201 protections, so in doing so -- but I think
4 certainly the combination of the two would have that
5 effect.

6 MR. DAMLE: So can I ask -- sorry, just a
7 general -- which may be -- which other people can
8 address, which I've always just been curious about.
9 But why the essential copy exemption is limited to
10 owners of the copies and why that's not automatically
11 -- so CONTU recommended that the Congress adopt a rule
12 that allows you to create essential copies if you're -
13 - I think it's the lawful possessor of the copy and
14 that was changed in Congress to be owner.

15 I'm just wondering just as a practical
16 matter, what's the rationale for limiting the
17 essential copy defense to owners of software rather
18 than anyone who has lawful possession of the software.
19 Mr. Bergmayer, I don't --

20 MR. BERGMAYER: Happy to address that.
21 Well, as I look at the essential step copy doctrine as
22 really making the most sense and doing the most useful

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1 work in the case of installing software, which doesn't
2 happen as much anymore since people just typically
3 just install it over the internet.

4 But if you have a disk, I would say when you
5 are installing -- you're installing from floppy disks
6 or a CD-ROM onto a computer, well, that is a copy,
7 right? And I think that is inarguably a new copy.
8 And if you own that disk, then you should be able to
9 use it by installing it on a computer.

10 I mean, I don't think that's a particularly
11 controversial point and that's where I think that the
12 essential step doctrine does the most useful work.
13 Where I have sort of trouble with it is the notion
14 that simply using software creates a RAM copy and
15 using the essential step test in that context I think
16 is -- it shouldn't be necessary -- either those RAM
17 copies should be ephemeral and just excluded from the
18 definition of copy or some other doctrine should say
19 that the possessor in that context should not need to
20 use -- need a license simply to use the software.

21 But I think limiting it to the lawful owner
22 is logical in the case of installing software, because

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1 otherwise I could take software and install it on my
2 computer and I'm the lawful possessor. Then, I lend
3 it to my friend. My friend is the lawful possessor
4 because he's borrowing it and he can install it in his
5 computer and so on.

6 So I think that -- limiting it to owner in
7 that particular concept -- context makes sense, but
8 not in the context of RAM copies, which I think needs
9 to be more fundamentally dealt with.

10 MR. PERZANOWSKI: Can I add something?

11 MR. DAMLE: Sure.

12 MR. PERZANOWSKI: I think another point
13 that's important here is to keep in mind that the
14 owner of a copy stands in a special relationship to
15 the work, right? The owner of a copy is someone who,
16 in the ordinary circumstance, has compensated the
17 copyright holder for that work, right?

18 And so, it makes sense to extend a set of
19 rights to owners that we don't extend certainly the
20 public generally, right? Owners have rights that the
21 public at large shouldn't have. And there might be
22 other people who are temporarily in lawful possession

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1 of a copy that we don't think deserve those
2 protections, right?

3 So I order some software. I don't know what
4 decade this hypothetical takes place in. but I order
5 some software over the internet and it gets delivered
6 to me by FedEx. FedEx is in lawful possession of that
7 software. I don't think they get to make copies of
8 it, even if they're essential to running the program,
9 because they don't stand in that sort of relationship
10 with the copyright holder.

11 The exhaustion is premised in large part on
12 this idea of the single recovery theory where
13 copyright holders have been compensated and as a
14 result, some rights get transferred to consumers.
15 That's just not true for people who might be, like I
16 said, temporarily in possession or bailees or
17 something along those lines.

18 MR. BERTIN: Mr. Mohr?

19 MR. MOHR: A couple of things. I think I
20 just wanted to associate myself with Keith's remarks
21 on software. He hit all the bullets I'd written down,
22 plus a couple more I hadn't thought of. The only

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1 thing I'm somewhat confused about is there's been some
2 suggestion that there's a split.

3 I'm not sure exactly which cases we're
4 talking about a split on. But if we're talking about
5 -- I mean, if we're talking about *Krause* and *Vernor*,
6 in our view, there is simply no split. And there's
7 certainly no split that warrants a different
8 application of a newly crafted rule to embedded
9 software. I mean, I'm just -- this is something that
10 I'm struggling with. I don't -- I just simply don't
11 see that.

12 MR. DAMLE: So in considering -- one of the
13 things that *Krause* I think says is that you could
14 consider -- so it says that the terms of the license
15 aren't necessarily controlling and that one of the
16 factors I think it identifies is whether the software
17 is sort of embedded in a device.

18 I think they bring that one up as one of the
19 factors. You think that's an appropriate factor for a
20 court to look at in terms of determining sort of
21 trying to draw this line between licensing and
22 ownership?

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1 MR. MOHR: Right. Appropriate, absolutely,
2 right? Because, I mean, this goes back to the
3 exchange that we I guess indirectly had before about
4 consumer expectations. There are particular
5 industries where there will be customs and practices,
6 uses of trade about how these goods are sold and
7 delivered.

8 In such cases, there is going to be a good
9 deal of reticence, not only I think on the consumer
10 side but also on the judicial side to engage in -- to
11 find ongoing license agreements where they are in fact
12 a fiction. But there are going to be a whole lot of
13 other cases where a licensing relationship is
14 completely appropriate. And I mean, in our view, the
15 courts have solved that problem properly and there's
16 no indication that they won't solve it properly going
17 forward.

18 MR. BERTIN: Mr. Lowe?

19 MR. LOWE: So I wanted to comment on the
20 issue that's come up about how innovation will be
21 affected by YODA or any revisions. And I think our
22 industry -- the whole vehicle aftermarket, which is

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1 about a \$350 billion industry in this country, has
2 spawned a huge amount of innovation because of the
3 ability to reverse engineer and the ability to work
4 with patent law. And patent is still available to
5 protect innovation and protect new ideas.

6 But the sense that you can use -- what we
7 fear is the use of copyright law to inhibit that and I
8 guess I brought that up before. And the issue of
9 exhaustion, once that first sale -- the car owner
10 should be the one that owns all the software, not
11 necessarily the idea behind the software, but the
12 software and able to do what they want with that
13 vehicle. And that includes being able to put on parts
14 for that car that may not be made by the same person
15 or company that made the car.

16 So I think it's important that when you're
17 looking at all this, that that needs to be considered
18 as part of this equation.

19 MR. BERTIN: Just to bring section 117 into
20 the debate here, section 117 does give certain rights
21 of repair and maintenance. But interestingly, the
22 language used is -- the key point is that you have to

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1 be the owner of the machine, which in Mr. Lowe's
2 example would be the owner of the car.

3 Is ownership of the machine itself enough or
4 do we also have to worry about the ownership of the
5 programs on the machine? Mr. Band, you're already up.
6 So go ahead.

7 MR. BAND: So I'll answer that as well as
8 the other questions on the table. So certainly in my
9 view, it should be -- and actually I think 117(c),
10 it's the owner of the machine or the owner or licensee
11 of the machine, at least for 117(c), whereas 117(b) I
12 think applies to the law -- is the owner of the
13 software and that's part of the problem here, that
14 they're different.

15 And I think to the extent of -- you were
16 asking why -- with CONTU, why -- what was the cause of
17 the change from what CONTU recommended to what
18 Congress enacted. You know, I'm old. I'm not that
19 old. It was before my time when the copyright
20 software amendments were enacted in 1980.

21 But I suspect that there's a very simple
22 answer, that the lobbyists from the large computer and

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1 software companies understood that by shifting it from
2 lawful possessor to lawful owner, that they
3 dramatically narrowed the effectiveness of 117 because
4 by then, already they were -- already by then, the
5 predominant model was to license software. And so,
6 they realized that they could completely neuter the
7 effectiveness of 117 by just changing a couple of
8 words. So that's actually pretty good lobbying. I
9 wish I had been around and had done it.

10 But with respect to the question about
11 innovation, I don't think a bill like YODA would have
12 any impact on innovation. I mean, right now, sort of
13 this control over the resale market is sort of like
14 money that goes right to the bottom line.

15 A manufacturer knows that a product has a
16 certain lifespan. They have no idea whether the
17 purchaser of that piece of equipment is going to keep
18 it for its entire lifespan or sell it after five years
19 and then someone else will use it for the remaining
20 two or three years of the lifespan.

21 But the ability to charge an extra license
22 fee for that transaction, which they wouldn't have

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1 made if it would have just stayed in the possession of
2 the first purchaser, I mean, this is again just money
3 that goes right to the bottom line. I don't think it
4 will have any impact on innovation.

5 The possibility of infringement, again, a
6 bill like YODA makes it very clear that this only
7 applies to non-infringing copies, and as you
8 mentioned, that it would also relate -- you still have
9 the ability to sue for infringement. So --

10 MR. DAMLE: So YODA, just going back to sort
11 of a point that I was making -- a question I had
12 before about whether this was limited to sort of
13 enterprise-level kinds of things, is it your -- so
14 YODA would extend to all of those, right? It wouldn't
15 just be limited to consumer devices. It would also
16 extend to a \$20,000, RAC server. Is that right?

17 MR. BAND: Yes, right.

18 MR. DAMLE: Yeah.

19 MR. BAND: It would be -- because at this
20 point, when you're having -- it would apply to the
21 iPhone. It would apply to this.

22 MR. DAMLE: Right.

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1 MR. BAND: And again, we're talking -- I
2 mean, when you say enterprise-level, I mean, you have
3 a lot of government agencies. The Library of Congress.
4 But it could also be the tree company that was
5 chopping down trees in my neighborhood yesterday.

6 I mean, a lot of that -- a lot of the power
7 saws have software in them now. And so, if you want
8 to start up -- one guy wants to start up his own
9 company and buy used power saws, it would allow him to
10 start a new business as well.

11 MR. DAMLE: And is it your -- so it wouldn't
12 be necessarily limited to circumstances where there's
13 like an inability to engage in sort of -- the first
14 purchaser to engage in negotiation. I mean, let me
15 put it a different way.

16 To what extent is there kind of -- I mean,
17 maybe you know, maybe you don't know. Is there sort
18 of negotiation between a company purchasing a kind of
19 -- I know you don't like the word enterprise, but
20 enterprise-level kind of switch from Cisco and the
21 first purchaser and Cisco, like negotiating over the
22 terms of the license. Like how -- does that just

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1 never happen?

2 MR. BAND: Well, my impression is it happens
3 very, very rarely. I mean, I imagine when the federal
4 government is buying things from Cisco, there probably
5 is a negotiation. But certainly going back to -- and
6 this does date me, but when I was working on UCITA,
7 the understanding was that -- you even had these large
8 insurance companies. And when they were dealing with
9 the software vendors -- these are like Aetna and
10 MetLife -- there was no negotiation. It was very much
11 a take it or leave it.

12 This was the license. You've got to take
13 the deal. And that's one of the reasons why the
14 insurance industry was so involved in the fight
15 against UCITA and ultimately prevented it from being
16 adopted anywhere other than Maryland and Virginia was
17 because there was no negotiation, even for these
18 Fortune 50 companies.

19 MR. BERTIN: Mr. Bergmayer?

20 MR. BERGMAYER: Yeah. I just have just sort
21 of a clarification. I'm curious as to how other
22 people view this. I mean, when I read the definition

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1 of a copy, it says it's a material object. So I would
2 say that if I own the car, I necessarily own any
3 copies of software in that car, unless you could say
4 that there were physically parts of the car that I own
5 and physically parts of the car that I don't own,
6 because I can't sort of -- I don't understand how you
7 could read the statute in any other way.

8 So if I own the car, I own the copies in the
9 car, or if I own the machine, I own the copies that
10 are contained in the machine. Or if you say that I
11 own the machine and I don't own the copies, there are
12 physically parts -- there are literally chips or
13 portions of the physical item that I don't own while I
14 do own the rest. And how do I pick out which ones I
15 do and which ones I don't? I mean, this is just how
16 the statute is written.

17 This is the entire basis of how all of these
18 interrelated statutes work. And I keep hearing this
19 notion that, well, you own the machine, but you don't
20 own copies of software on the machine. And that just
21 doesn't make any sense and it doesn't comport with the
22 statute.

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1 MR. DAMLE: So I mean, but what -- so I
2 mean, do you think that Congress, when they -- when
3 Congress reacted to the *MAI* case, do you think they
4 were just -- what do you think that meant? Were they
5 not implicitly sort of accepting that the premise of
6 software ownership versus machine ownership wasn't
7 actually a real distinction or how would you react to
8 that?

9 MR. BERGMAYER: Well, it says if you own --
10 I mean, I'm just looking at the statute. And it says
11 if you own the machine, then if there is a new copy --
12 in other words, something that does trigger copyright
13 -- that is made by virtue of activating the machine,
14 then you are given a statutory license to make that
15 copy.

16 So that is not really relating to the nature
17 of what a copy is or whether you own it or not.
18 There's nothing in it that says you don't own the
19 copy. It's authorizing you to make a new copy. So I
20 think that's fine. And it does say a machine that
21 lawfully contains an authorized copy. So that would
22 seem to sort of say you could have a machine and parts

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1 of it count as the material object that is the copy
2 and parts of it that don't.

3 But if we're going to say that you don't own
4 the copy, but you do own the machine, then that
5 necessarily requires that you have some way of
6 determining which parts of the machine do I own and
7 which parts of the machine don't I own, because again,
8 that's just what the statute says. There's no other
9 way to read it that actually does justice to the
10 actual words that Congress enacted.

11 MR. BERTIN: Mr. Harbeson?

12 MR. HARBESON: I just -- I'm not going to
13 have a lot to say about section 117 based on my
14 membership, of course. But I do want to make two
15 points. The first is that there was another case that
16 was decided the same day as *Vernor* and that's *UMG v.*
17 *Troy Augusto*, which is a case of distribution of
18 promotional CDs to radio stations via -- from record
19 labels. And that case was decided in favor of -- in
20 favor of the person who was doing the selling. To my
21 knowledge, it has not affected a market for CDs. So,
22 and I offer that only because it seems relevant to me.

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1 But I recognize that I'm a little off point here.

2 The other thing is I want to respond to some
3 points that were made on this side of the table
4 regarding -- with regard to piracy. And just to point
5 out that I have some experience with the concept of
6 piracy. I've been accused at this table of being a
7 pirate in previous hearings. And we make laws for the
8 law-abiding, not for the people that don't.

9 Someone who is going to violate a license is
10 going to violate the copyright. They don't care. The
11 people who this will affect are the people who do want
12 to follow the law. So I'd just like to remind people
13 of that. That's probably all I'll say on this panel.

14 MR. BERTIN: A general question. If
15 Congress decided to enact YODA or some other
16 legislation of a similar or different nature or made
17 the changes that have been suggested here today, is
18 there a risk or a concern -- that Congress should be
19 aware -- that private parties would just simply
20 contract around them? Say, notwithstanding the
21 provisions of the now newly amended 109 or 117, you
22 are not considered an owner?

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1 MR. PERZANOWSKI: I'm happy to start to
2 address that. As I recall, I don't have the text of
3 YODA memorized, but I do think that the bill
4 contemplates the possibility of contracting around
5 those rights and it explicitly rejects that
6 possibility.

7 So I think this is really important to go
8 back to the point that someone made earlier about the
9 distinction between a contract and a license. A
10 license is fundamentally a creature of property law,
11 not a creature of contract law. And I -- if what has
12 happened is a transfer of ownership as a matter of
13 property law, a contract doesn't change that, right?

14 It might create contract liability for
15 breach. But I don't think it can change that
16 fundamental question of the transfer of ownership.
17 That's why I think it's really important that we have
18 a clear, well-settled understanding of what kinds of
19 property transitions trigger a transfer of ownership.
20 That's not a function of contract.

21 The other point that I wanted to make is, in
22 some of the earlier panels, we had some discussion

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1 about concrete examples of harm to consumers and
2 whether we can point to specific instances where
3 consumers have been prevented from transferring their
4 devices or whether we can articulate other kinds of
5 harm. And I think we can.

6 But I also think it's important to use the
7 same standard in evaluating harm when we're talking
8 about these sort of potential future harms to
9 consumers, which I agree have not all materialized
10 yet, and the kinds of speculative harms that have been
11 articulated when it comes to passing legislation like
12 YODA, right? I think we need to hold those two kinds
13 of harms to the same standard.

14 MR. DAMLE: So can I ask you about sort of
15 the *Krause* test, which starts from the premise that
16 the terms of the license are not necessarily
17 controlling. They're relevant, but not necessarily
18 controlling. And at least in that case, the court
19 kind of went beyond the four corners of the contract
20 to look at kind of the sort of facts on the ground to
21 determine whether there was a license or whether there
22 was ownership.

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1 I mean, do you think that that test is
2 sufficiently clear? Or is it sort of an appropriate
3 approach for courts to take in trying to draw this
4 line?

5 MR. PERZANOWSKI: So I think the *Krause*
6 test, by looking at the terms of the license, is not
7 mistaken, right, to take those terms into
8 consideration. I think what's crucial though is
9 trying to figure out exactly what question we're
10 trying to answer.

11 And the question we're trying to answer is
12 not what are the hopes and dreams of the copyright
13 holder that they have reflected in this agreement,
14 which is I think what the *Vernor* test does, right? It
15 says as long as you recite the right kinds of
16 restrictions, as long as you announce your intention
17 to restrict use, to restrict transfer and you call
18 this thing a license and not a sale, you get your
19 wish.

20 Of course, the context in which the
21 transaction occurs is important. And some of that
22 context is going to be reflected in the license. But

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1 we can't stop there, right? My beef with the *Krause*
2 decision is in part a question about terminology,
3 right? I think this term licensed copy is misleading
4 in an important way, right? It distracts our
5 attention from what the real question is, which is
6 whether or not a transfer of ownership has occurred.

7 And I think the more familiar transactional
8 categories are really much more useful than the term
9 license in figuring out the answer to that question.
10 The statutory language rental, lease or lending I
11 think is much more effective because a license, as we
12 know -- this is one of the beauties of licenses -- is
13 that they are infinitely flexible, right?

14 Property transactions are not infinitely
15 flexible, certainly not property transactions when it
16 comes to personal property. There's a limited number
17 of accepted transactional forms and what we have to do
18 is look at a set of facts, including the text of the
19 license, and decide which category works, right? The
20 numerous classes principle applies in this context as
21 much as it does anywhere else in property law. Does
22 that get to your question?

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1 MR. DAMLE: Yeah. I mean, I -- so this is
2 sort of -- I'm sort of trying to see where -- if
3 there's any real disagreement between you and Mr. Mohr
4 in terms of -- Mr. Mohr said it might be appropriate,
5 it would be appropriate to look at -- again, going
6 back to the topic of the study, which is software-
7 enabled consumer products, which is it may be a
8 relevant consideration to look at whether what you're
9 talking about is software that's embedded in a product
10 when you're trying to determine under a test like
11 *Krause* whether something is owned or not.

12 MR. PERZANOWSKI: So I would not -- I don't
13 think the question of ownership hinges on whether the
14 software is embedded in a device.

15 MR. DAMLE: I wasn't suggesting it was. But
16 I was suggesting that it might be a relevant factor
17 and it might be an important factor. Just going to
18 the point that it gives you an indication of what the
19 customs are, what the consumer expectations are, which
20 is I think something Mr. Mohr agreed would also be
21 relevant.

22 MR. PERZANOWSKI: Yeah, I think it could be

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1 a relevant factor. I don't think it's the driving
2 factor. The things that I've talked about before,
3 one-time payment, perpetual possession I think are
4 much more clear -- are much clearer indications of the
5 answer to that question. But I think that context is
6 important and there might be reasons to treat some
7 kinds of products and some kinds of industries
8 different from others.

9 MR. DAMLE: Thank you.

10 MR. BERTIN: So just to take a jumping off
11 point from what Sy just said, in the legislation for
12 117, there's a carve-out for embedded software in
13 devices in the context of rentals, the notion being
14 that you can rent the car and you don't need to worry
15 about the software in it.

16 And in the legislative history, there's
17 reference, as examples, of such devices as microwave
18 ovens. And I guess you might look to that and say,
19 well, Congress has sort of recognized that that's an
20 issue and they've carved that out. And that will give
21 us useful information about what has happened since
22 that change or that provision was added.

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1 And I guess the question generally for the
2 panel is, does that give us useful information from
3 experience? Is it the case that that change is really
4 irrelevant because, again, getting back to the
5 ownership question, if you don't own the software or
6 you don't own the machine, the provision essentially
7 doesn't do the work that it may have been intended to
8 do? Mr. Band?

9 MR. BAND: Well, I think it's helpful in
10 that it shows that, at the time, a certain industry
11 group came forward, the rental car industry and said,
12 hey, this is a problem. And Congress addressed that
13 problem and the sky didn't fall. And we're now -- the
14 economy is in a different place and the level of
15 technology and the level of -- the number -- the kinds
16 of devices that have software in them is different.

17 And so I think it's certainly worth looking
18 at and saying, well, that's a good starting point.
19 But now, that only applies to the rental of devices
20 that have the software in it.

21 And so, it's worth saying, okay, can we --
22 does it make sense to expand it beyond the rental

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1 context to other contexts and does it make sense to
2 perhaps consider expanding it to the universe of
3 software? I mean, the definition that they have in --
4 or, the category of software that it applies to is
5 kind of hard to understand exactly what it means and
6 even with the report language, it's hard to
7 understand.

8 But I think it has been applied -- people
9 know -- I think people basically understand what it's
10 applied to and it has not, as far as I'm aware, led to
11 any litigation. But I think it's certainly worth
12 saying, this is a good starting point.

13 How do -- how can we expand on that and how
14 can we build on that, given the fact that the world
15 has moved forward from there and the issue is far more
16 pervasive in the economy than it was at the time.

17 MR. BERTIN: Mr. Kupferschmid?

18 MR. KUPFERSCHMID: So just to follow up on
19 your example of the microwave in the context of what
20 Jonathan just said, I mean, the Congress knew
21 microwaves had software back when they passed the act.
22 Microwaves still have software in them. Not sure what

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1 in that context has changed. In other words, Congress
2 understood the issue. They knew the issue and decided
3 to limit this carve-out to rental. And so, I think
4 until we have very sort of specific concrete examples
5 of problems, I think it would be a mistake to sort of
6 legislate in this arena.

7 I'd also like to point out in the context of
8 109 -- I mean, we talk about licenses as if they were
9 a four-letter word and as if the mere fact that
10 there's a license in place means that you can't do x,
11 y and z, that you could do if you were an owner. And
12 that simply isn't the case.

13 It may be the case sometimes. But I think
14 in the vast majority of examples -- or at least I
15 think we'd need to study all the different consumer
16 products that are out there that include software to
17 figure out how many of them actually do restrict
18 transfer. And of those products that restrict
19 transfer, how many of them just sort of condition
20 transfer?

21 Like for instance, that allows you --
22 there's a lot of software companies, for instance,

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1 that allow the transfer of their software, provided
2 you let them know who you're transferring it to and so
3 they know who to give the updates to or the bug fixes
4 or what have you.

5 And so, I think what you'd see if you'd look
6 at these licenses is that there are, number one, not
7 those restrictions on things like essential copies,
8 not those restrictions on transfers that you think
9 that people think may be out there and you might even
10 find a lot of provisions in those licenses that
11 provide benefits that are not found in a usual
12 ownership or contract agreement.

13 MR. BERTIN: Mr. Mohr?

14 MR. MOHR: Just I guess a couple of points
15 in light of the discussion that's gone on. The first
16 thing is I do see some overlap between Professor
17 Perzanowski and I on -- at least insofar as the
18 concept of relevance goes. When we get to the concept
19 of weight, I think we probably have considerably
20 different views.

21 The second thing that struck me is in
22 discussing the drafting of 117, like everybody else, I

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1 don't know how it got there. I suspect Mr. Band is
2 probably right. And if he is right, then the
3 development of the licensing model for software was
4 part of congressional design. This was not an
5 oversight.

6 And so, if we're doing that -- I mean,
7 again, this is the Office is doing its job. If I'm
8 coming back to the same points I made in the
9 beginning, we've been thoroughly examining these
10 issues. But again, there's an enormous record of
11 success here in how that model has played out for
12 software providers.

13 To that end, I guess I feel obligated to
14 voice extreme skepticism about the idea of any sort of
15 preemption of license terms. That's just not
16 something that serves this industry well for a whole
17 host of reasons.

18 MR. DAMLE: So there are some -- there is at
19 least one case, maybe more, that have actually
20 preempted license terms in the copyright context.

21 MR. MOHR: Oh, there's more than one.

22 MR. DAMLE: Yeah. So what do you think? I

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1 mean, what have the ill effects been of that, of
2 those?

3 MR. MOHR: If you are saying -- there are
4 certain cases -- so under the -- well, there's a
5 couple of different kinds of preemptions. There is
6 statutory, right, and then you have field and
7 conflict. I'm assuming you're talking about statutory
8 preemption cases?

9 MR. DAMLE: Well yeah, yeah.

10 MR. MOHR: Okay. So with respect to the
11 statutory preemption cases, there is a dividing line
12 that we have historically not really had a problem
13 with between -- oh, I'm trying to remember the exact
14 words. But essentially, it's a qualitative test that
15 the courts have applied. And there's a difference,
16 for example, between use restrictions and copying
17 restrictions. And if you have copying restrictions
18 and the court looks at those particular cases as
19 can'ts and if you have use restrictions, they don't.

20 That's an appropriate and workable line.
21 That's a quite different matter from a statute that
22 preempts contracts or a specific type of contract for

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1 a particular industry. It's very, very different. So
2 we're okay. I mean, we're okay with existing law. We
3 don't have a problem with it. But when we're talking
4 about in this discussion moving beyond that, that's
5 where the hackles start to go up.

6 MR. BERTIN: Mr. Zuck?

7 MR. ZUCK: Yes, thanks. Thanks again for
8 allowing me to be a part of this conversation, and
9 it's very interesting to find the intersections
10 between sort of the practical implications and some of
11 these deep dives into the legal discussions.

12 And so, taking a step back again, I want to
13 reiterate what Chris said, which is that we have a
14 system that's largely working in terms of software
15 licensing and in terms of serving the needs of the
16 majority of consumers, right?

17 In other words, most consumers have a
18 particular mode of operation and don't have
19 assumptions about if I buy an app on my phone, that
20 app will transfer with the phone if I give the phone
21 to someone else, for example. It ends up being
22 exception cases that I feel like we're talking about a

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1 lot. And so, when trying to address those exception
2 cases, I think it has to be weighed against the
3 success of the industry to date and also some of the
4 flexibility and, again, the dynamism associated with
5 those licensing practices.

6 When I sell a piece of software -- a game or
7 something like that -- for 99 cents, I do it with the
8 expectation that you will probably tire of that game
9 eventually. So the point at which you have tired of
10 that game is what I consider to be the duration of the
11 life cycle of that game. It's not how long somebody -
12 - an indefinite number of people could be interested
13 in that game into the future, right?

14 So when I'm pricing it at 99 cents, I'm sort
15 of building into that notion that after six months,
16 you're going to either stop playing this or you're
17 going to buy new levels or something like that. I'm
18 not building into a 99 cent cost the ability for an
19 infinite number of people to become bored with that
20 game.

21 And so, there is sort of an expectation in
22 some of these dynamic licensing models that says that

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1 I understand how users are going to go about using it.
2 And then, again, in the context of embedded devices,
3 which is where we have the least amount of information
4 about this because there's not a lot of licensing
5 cases that have been addressed in situations.

6 But if I say just automatically that if you
7 buy a refrigerator, you own all the software in the
8 refrigerator, does that mean that I can carry that
9 software into another refrigerator, for example, that
10 I buy or does the lifetime of the software die with
11 the refrigerator? Well, if I own the software, then
12 why don't I have the ability to transfer that to
13 another refrigerator that I want to use instead but
14 with this software that I somehow own as a result of
15 purchasing a refrigerator? So I can see a lot of
16 situations --

17 MR. DAMLE: Well, that's not particularly
18 realistic for consumers.

19 MR. ZUCK: No, well, it's -- well, not
20 particularly realistic for a consumer. But that's
21 just it. Most of these cases that we're talking about
22 aren't consumer cases. They are about very large

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1 industries that are trying to commoditize add-on
2 products, aftermarket, et cetera. It's very seldom
3 about a consumer doing any of these things.

4 So in that case, I could very much see a
5 situation where I could take advantage of ownership
6 law, provide some way that here's my new refrigerator
7 that's half-priced and here's a way to transfer the
8 software out of this refrigerator you owned before and
9 you don't have to buy another one or something like
10 that. That could be done at a higher level than just
11 an individual consumer and made pretty easy, I guess.

12 It's a weird example, the refrigerator,
13 because it's such a big device. But I mean, it
14 certainly could have been the case with TiVos or
15 something like that where a lot of that kind of active
16 hacking took place even at a consumer level. So I
17 mean, again, ownership of the software I think has
18 downstream consequences that we haven't fully thought
19 through. That's all -- even in embedded devices.

20 MR. BERTIN: Mr. Bockert?

21 MR. BOCKERT: Thank you for bringing that
22 one up, Mr. Zuck. So maybe we can put a more

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1 realistic face on it when we talk about exchanging
2 software on parts in automobiles.

3 And so, in this example, where somebody owns
4 the copy of the software on their automobile and one
5 of the parts malfunctions, there's a piece of software
6 on that part, right? Well, imagine that it's just a
7 part that's not covered by copyright or covered by
8 patent. So it's just a screw that has a piece of
9 software in it that communicates with another screw,
10 just to say "this is the correct approved screw that's
11 authorized by the automobile manufacturer."

12 Well, if the software is not there, an
13 aftermarket parts manufacturer can come in and say, "I
14 can make that screw. Let me put that screw in." You
15 have several options. But in the scenario where the
16 owner of the automobile does not own the software and
17 does not have the right to transfer the copy of the
18 software into the new screw, now they don't have
19 options for replacement screws. They have to go to
20 the person who owns the copyright and the software and
21 the screw.

22 You say maybe in a refrigerator market, this

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1 is sort of unrealistic and it's impractical to think
2 about this. But the aftermarket auto part industry is
3 a \$350 billion industry. I mean, this is something
4 that exists and it's changing because of the
5 prevalence of software in purely mechanical parts. So
6 I think it's a very real concern.

7 MR. ZUCK: And I think that a lot of that is
8 going to get adjudicated over time. And we've seen
9 already cases where pure interoperability has fallen
10 in favor of even replacement printer cartridges and
11 things like that. So I think the systems that are in
12 place are addressing those issues.

13 Let me think of another example -- cameras,
14 right? I'm a photographer. If I buy the Canon 5D
15 Mark II, it has a certain amount of firmware on it
16 that provides a certain functionality. There's other
17 cameras that they sell. The only difference of them
18 is in fact the firmware, right? And there's
19 additional functionality provided to the owners of
20 those cameras and the difference between them is in
21 fact the software and not the hardware because it's
22 simply easier to fully implement it and to provide

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1 different firmware than it is to have different
2 manufacturing practices.

3 So if I own the firmware associated with the
4 more expensive camera, can I then later upgrade to a
5 cheaper camera and install the firmware from the
6 previous one? I would consider that to be a bad
7 potential. And yet firmware is something that's
8 completely transferable and is done by users today,
9 right?

10 So it's not unimaginable, right? And so, if
11 we're having a theoretical discussion about it, I can
12 come up with as many theories why I don't want that
13 transferability as you can come up with you do. I
14 guess my understanding of what has happened
15 historically though is that the things on which we
16 would all kind of agree would be a good idea, the
17 courts have ended up ruling in that direction.

18 MR. BERTIN: Mr. Bergmayer?

19 MR. BERGMAYER: All the examples you're
20 bringing up are not transfers of material items.
21 They're all about making new copies or all about
22 making adaptations. They're all about things that

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1 really don't relate to whether or not you own the
2 copy. Owning a copy of 99 cent software app would
3 only mean that you could transfer your phone, your
4 physical phone. It doesn't give you the magical right
5 to make an infinite number of new copies to anyone
6 else who wants one.

7 If I own a refrigerator, that doesn't give
8 me the right to transfer the software because it would
9 give me the right to move the chips from one
10 refrigerator to another, sure, but not to make a new
11 copy. And the same thing with the firmware.

12 So I think there's a failure to distinguish
13 between ownership of a copy, which is a material
14 thing, and then the implication of actual copyright
15 rights such as reproduction or derivative works and if
16 those were allowed, those would be allowed under fair
17 use or maybe they are allowed under some other
18 doctrine.

19 But whether or not you own the copy really
20 has no bearing. Owning the copy just means that you
21 own the physical thing and that's it. And it means
22 that you can move the physical thing around and resell

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1 that physical thing. It's not about giving you IP
2 rights of any sort.

3 MR. ZUCK: On the flipside of that though,
4 if I license a software, for example -- and again,
5 this isn't embedded, but these are the examples I'm
6 drawing from -- I have the ability to install it onto
7 a new device, for example. So if I'm only confined to
8 my ownership of the copy that exists on a single
9 device and I then sell that device and get the new
10 iPhone or something like that, that would suggest that
11 I don't then have a right to bring a new copy of
12 software onto that device. You can't have your cake
13 and eat it too.

14 MR. BERGMAYER: If I buy software -- if I
15 buy physical -- if I buy optical media, then I'm given
16 an essential copy --

17 MR. ZUCK: None of it's optical. You're
18 downloading it from a store to your phone.

19 MR. BERGMAYER: Yes.

20 MR. ZUCK: So you're saying that that's the
21 thing that you want to own. Okay, I --

22 MR. BERGMAYER: Yes, I own my phone.

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1 MR. ZUCK: Okay. So --

2 MR. BERGMAYER: I already owned my phone.

3 MR. ZUCK: So you don't own --

4 MR. BERGMAYER: I owned it after installing
5 software on it.

6 MR. ZUCK: So you want to own that software
7 that you've downloaded.

8 MR. BERGMAYER: Yes.

9 MR. ZUCK: Okay.

10 MR. BERGMAYER: Because I own the copy --

11 MR. ZUCK: Then fine, when you get a new
12 phone, then you have to pay me to get the software
13 again for that new phone is what you're suggesting.

14 MR. BERGMAYER: There are markets that work
15 that way and there are markets that don't. I mean,
16 there are markets that give you unlimited re-downloads
17 onto new physical devices that you own --

18 MR. ZUCK: That's because that's a license.

19 MR. BERGMAYER: Right. So what I bought
20 then is I bought the right to make new reproductions.

21 MR. ZUCK: You bought nothing. That's the
22 point. Yes, you bought the --

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1 MR. BERGMAYER: But I own the phone.

2 MR. ZUCK: -- license of the software. So
3 then regardless, sometimes you can use it on three
4 different devices.

5 MR. BERGMAYER: Okay --

6 MR. ZUCK: -- for example --

7 MR. BERGMAYER: -- if I own my phone, I own
8 a copy of the software that is installed on that phone
9 because a copy is defined in the statute as a material
10 item. There is no other category. There is no
11 ethereal copy, like right to own a copy, right to make
12 a new copy.

13 I can license IP rights or I can own a
14 physical item. And there's just a continual failure
15 to make that distinction which is vital in
16 specifically the embedded software context that we're
17 here to discuss because it specifically implicates the
18 ability to transfer devices with software that is
19 embedded in them from one person to another.

20 MR. ZUCK: I guess there hasn't been that
21 much problem doing those transfers of devices that
22 have embedded software though.

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1 MR. BOCKERT: In the automotive industry,
2 there have been those issues. So we see that all the
3 time.

4 MR. ZUCK: But you're talking about
5 replacement parts though. That's a different issue
6 than --

7 MR. BOCKERT: Right, but --

8 MR. ZUCK: -- transferring --

9 MR. BOCKERT: But there are -- so this gets
10 to what Mr. Bergmayer was saying earlier about how
11 when you own the automobile, are we going to
12 distinguish between whether you own certain parts and
13 don't own others?

14 What we're saying is when you're replacing a
15 part, there are restrictions that are not allowing you
16 to transfer the chip that contains the software to the
17 other because you can't access it and you can't get it
18 to reboot on the other -- on the replacement device.

19 MR. ZUCK: Is it about you transferring a
20 chip or building your own chip and the new screw that
21 you're trying to provide, the new function you're
22 trying to provide? Is it really about making a

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1 physical transfer of a chip from one screw to another
2 that you're trying to accomplish?

3 MR. BOCKERT: Well, it's both issues. It's
4 both issues.

5 MR. BERGMAYER: I mean, I'll just say I'm
6 actually adopting what I think is a pretty narrow view
7 of 109 because I am specifically not saying that this
8 is about digital first-sale, which is some right which
9 people have proposed to -- yeah, to make new copies.

10 This is about transferring a material item
11 from one owner to another and that's it. There are
12 other issues that are related to digital first-sale
13 that we can discuss. But specifically when it comes
14 to section 109 and the ownership of a copy, it is only
15 about the ownership of a material item. It is not
16 about IP rights and it is not about anything sort of
17 broader than that.

18 And I think it is simply misleading to
19 suggest that saying that the fact that someone owns a
20 copy gives them intellectual property rights, which
21 would be a license, that they otherwise don't have.

22 MR. BERTIN: Okay. I wanted to hit one

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1 other topic before we close out. And that's open-
2 source software, which is often accompanied by
3 conditions on the free transfer and reproduction of
4 such software, such as requiring the disclosure of any
5 software modifications or the downstream licensing of
6 such software.

7 And the question I'd like to put out is
8 would YODA or an amendment like YODA affect the
9 development and use of open-source software. Chris?

10 MR. MOHR: So this question came up before
11 and the answer to that question is yes. And the
12 reason is because an owner of a copy -- if I make a
13 modification, suppose it's a fair use. I have no
14 obligation whatsoever to share that. I may in fact
15 sell fair uses of particular works without permission.
16 That's the point, right?

17 So under that type of model, that undercuts
18 -- that type of model rather undercuts the incentives
19 for communities to develop around open-source and the
20 sharing that goes on in those communities to quickly
21 fix bugs and so on and so forth. It's a very
22 different way of distributing software. And the

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1 current model allows people to choose. If they think
2 they're going to do better under an open-source model,
3 they are free to do so and to adopt any number of
4 different licenses, whether it's the GPL or another
5 one.

6 And if they want to do a closed ecosystem in
7 the way that Apple does, they can do that too. That's
8 fine. And it seems to have worked pretty well.

9 The only way it doesn't work, I guess, is if
10 you are adopting -- I mean, I don't know what more I
11 can say about differing ways of construing the statute
12 vis-à-vis ownership and copy, other than if you don't
13 -- other than to really say I don't agree.

14 I'm having trouble finding a court case that
15 agrees. And there are lots of people who have
16 invested lots of time, money and effort on particular
17 constructions of that very provision that has been
18 shown to be an enormous success. I think it would be
19 unwise to disrupt those expectations or that
20 performance.

21 MR. BERTIN: Mr. Band?

22 MR. BAND: Yeah. I don't see YODA or

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1 something like that having any impact at all on open-
2 source software. As we heard before, the open-source
3 licenses are affecting the rights attaching to the
4 software but not the copy of the software because it's
5 -- and so the open-source license allows the second
6 user to make copies or to make derivative works.
7 Those are completely different from what we're talking
8 about in YODA, which is purely about can the first
9 person sell the product to the second person. And it
10 doesn't -- and it would in no way limit what's -- how
11 the open-source model would work.

12 But also, just getting back to the previous
13 colloquy about -- let's say firmware that is
14 transferred from one device to a newer device, I mean,
15 you see that all the time with refurbished products.
16 And we think that that secondary market for
17 refurbished products is -- I mean, that's a good
18 thing.

19 It's positive for consumers because you have
20 consumers that are able to buy products at a lower
21 cost than they would have been able to buy a new or
22 un-refurbished product. And it's environmentally good

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1 to recycle products. And so yes, it means -- it
2 conceivably means that you'll have a manufacturer who
3 would have to compete with a refurbished product.

4 But we think that competition is good,
5 basically that -- and copyright and other statutory
6 monopolies are the exception to the general rule in
7 our economy that we want to promote competition. And
8 so, having refurbished products is a good thing and we
9 should encourage it as much as possible.

10 MR. BERTIN: Mr. Perzanowski?

11 MR. PERZANOWSKI: So I want to go back a few
12 minutes to a point that was made about the possibility
13 that at least some license agreements grant consumers
14 certain rights that might otherwise be within their
15 control as owners of copies.

16 There are circumstances, right, where a
17 license does provide something akin to the rights
18 under 109 or 117, right? That happens out in the
19 world sometimes. And I think that those kinds of
20 flexible licenses are a welcome addition to what we
21 see out there in the market. So Amazon, for example,
22 has a sort of simulation of lending that works on the

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1 Kindle. So publishers can opt in for some books to
2 allow consumers to lend an e-book one time for a
3 period of two weeks and then never again, right?

4 And so, there are I think two important
5 limitations to keep in mind and I think demonstrate
6 why those kinds of licensed secondary markets are a
7 pretty poor substitute for the real thing. One is
8 they are incomplete, right? I mean, Amazon's system,
9 for example, is opt-in. Not all platforms do this.
10 Certainly not all publishers participate. So you get
11 this sort of spotty set of rights for consumers.

12 And the other I think more important big
13 picture thing is there's a big difference between
14 granted permission to engage in a behavior and having
15 a right to engage in that behavior, right? Property
16 is not having to ask for permission. That's why we
17 care about ownership. And there are some really
18 important things that flow from unregulated property
19 interests, right, unregulated secondary markets. We
20 might think that those uses are most valuable
21 precisely where permission is not going to be granted,
22 right?

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1 So you mentioned that sometimes they say,
2 look, you can sell your software. But like, write
3 down who you're selling it to and keep track of that
4 transfer. Well, one of the great things that comes
5 from unregulated, unlicensed secondary markets is
6 privacy. No one keeps track of who owns what. No one
7 keeps track of what books you're reading. No one
8 keeps track of what software you're using and I think
9 consumers see that as a benefit.

10 You can think about user innovation or,
11 potentially competitive uses that -- or competitive
12 resale markets where it's really unlikely that anybody
13 is going to give permission for someone to take their
14 product and build on it and do something new and
15 interesting with it, where you might not see
16 permission to sell a used product at a lower price
17 that competes with the new product.

18 But that's precisely what a property
19 interest allows owners to do. So those things do
20 exist. But they are not a perfect substitute for
21 actual ownership by purchasers.

22 MR. BERTIN: Chris? Mr. Mohr, do you have

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1 one more -- one final thought? Or Mr. Harbeson?

2 MR. MOHR: No -- (off mic).

3 MR. HARBESON: If I --

4 MR. BERTIN: Mr. -- sorry, go ahead.

5 MR. HARBESON: It's kind of ridiculous. I'm
6 glad I'm not going to be the final word because that
7 would be kind of silly. But I promised I would shut
8 up, but I did not sign a contract to that effect, so
9 you're stuck with one more -- a word.

10 I want to just go back to a couple of things
11 that were said earlier. There's been a lot of talk,
12 or some talk anyway, about unintended consequences of
13 changing the law. The Music Library Association is
14 here precisely because we're worried about unintended
15 consequences of looking at something too narrowly and
16 having that have broader consequences.

17 So just to be clear, unless -- what is
18 recommended is something incredibly narrow, to the
19 extent of only affecting 109(c), for example, and the
20 way, again, that legislation works, I think that's
21 unlikely -- making a change in this small field will
22 have larger ripple effects. So please -- I implore

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1 the Office to consider the wider impact of what
2 they're recommending.

3 The other thing I want to address is the
4 question of preemption of contracts. And the reason I
5 want to do that is because we are -- we do propose a
6 form of that. But I want to be clear that we do not
7 support, for example, what was done in the United
8 Kingdom, which renders certain contracts unenforceable
9 if they contradict limitations and exceptions in their
10 law. That would cause enormous problems for us in
11 negotiations of gift agreements and the like.

12 What we are requesting is a much narrower
13 form of preemption. And I'd just like to underline
14 that proposal. It's in our initial comments. And so,
15 I just would like to point towards that.

16 MR. BERTIN: And Mr. Kupferschmid, you get
17 the last word.

18 MR. KUPFERSCHMID: Okay. So just to point
19 out sort of an inconsistency with what at least I'm
20 hearing from I'll say the other side of the table. We
21 hear that consumers have a right to privacy. I
22 understand that. I get that. We're also hearing that

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1 they should have a right to updates and bug fixes and
2 customer support, as would be in the YODA bill. You
3 can't have it both ways.

4 I mean, there's no way for the software
5 company to know who I am -- know that the software has
6 been transferred and to know who to provide these
7 updates and bug fixes and customer support to if the
8 individual wishes to be -- remain anonymous or
9 something in terms of who you sell to.

10 So there's an internal inconsistency there
11 that is problematic. And I think from a consumer
12 protection -- or from sort of satisfying their
13 customer base, I think it makes a lot of sense for
14 these software companies to include a provision in
15 there that says, yes, you can transfer -- we're giving
16 you -- that's what you want to do.

17 Yes, you can transfer this software, but
18 under these circumstances, which is we need to know
19 who you're transferring it to so we know who to
20 deliver the customer support to, the upgrades, the bug
21 fixes. I think that's completely reasonable.

22 And to the extent we're hearing otherwise,

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1 it's sort of putting the software companies in a no-
2 win situation. And I guess that's the last word.

3 MR. BERTIN: Thank you to the members of our
4 panel. This concludes our roundtable on software-
5 enabled consumer products. Oh, excuse me. I'm being
6 corrected on that.

7 MR. DAMLE: So we have a microphone set up,
8 a freestanding microphone. We wanted to have sort of
9 a period of time for observers in the audience to
10 offer any thoughts or comments they might have. So
11 there's a mic stand that's making its way to the front
12 of the room. So if anyone's interested, go ahead.
13 There's a microphone there. Mr. Tepp?

14 MR. TEPP: Thanks. Is this on? Is it on?
15 No? There we go. All right. Just a couple of
16 remarks in regard to the harm from the proposed
17 contract preemption concept.

18 I'd like to point out that commonly in the
19 business-to-business context, licenses are the result
20 of face-to-face, arm's-length negotiations and that
21 preemption of those contracts introduces unnecessary
22 uncertainty into the marketplace and is inconsistent

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1 with the basic free market approach of the U.S.
2 copyright system, dating all the way back to Article
3 I, Section 8, Clause 8.

4 In any event, what this issue really boils
5 down to is preempting contract terms that some people
6 don't like, notwithstanding the fact that they're
7 enforceable contract terms. So it's about government
8 banning certain business models which will actually
9 have the predictable effect of increasing prices
10 because software companies have fewer options in how
11 to tailor a license to particular uses and they'd be
12 forced to offer higher level, higher priced licenses.

13 And the case for government control in place
14 of free market approach simply hasn't been made. The
15 evidence is scant, at best, particularly in the
16 context of the software industry, which is as dynamic,
17 as competitive and as innovative as any industry in
18 the United States. Thank you.

19 MR. DAMLE: Any other thoughts from the
20 audience? Okay. Well, thank you. That was -- now
21 it's the end of the first roundtable on software-
22 enabled consumer products, and next week is in San

Capital Reporting Company
U.S. Copyright Office Software-Enabled Products Study (5/18/2016)

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1 Francisco.

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4 (Whereupon, the foregoing adjourned at 2:50

5 p.m.)

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