UNITED STATES DISTRICT COURT FOR THE DISTRICT OF COLUMBIA

STATE OF NEW YORK, et al.,

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Plaintiffs,

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v. CA No. 98-1233(CKK)

Washington, D.C.

MICROSOFT CORPORATION, . April 10, 2002

9:04 a.m.

Defendant. .

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VOLUME 15

MORNING SESSION

TRANSCRIPT OF TRIAL RECORD

BEFORE THE HONORABLE COLLEEN KOLLAR-KOTELLY UNITED STATES DISTRICT JUDGE

APPEARANCES:

For the Plaintiff:

Litigating States

Dielgaeing Beaces

For the Defendant:

BRENDAN V. SULLIVAN, JR., ESQ.

STEVEN R. KUNEY, ESQ.

KEVIN HODGES, ESQ.

WILLIAMS & CONNOLLY

725 Twelfth Street, NW Washington, DC 20005

(202) 434-5800

JOHN L. WARDEN, ESQ.

STEVEN L. HOLLEY, ESQ.

RICHARD J. UROWSKY, ESQ.

MICHAEL LACOVARA, ESQ.

RONALD J. COLOMBO, ESQ.

SULLIVAN & CROMWELL

125 Broad Street

New York, NY 10004

(212) 558-4000

DAN K. WEBB, ESQ.

WINSTON & STRAWN

35 West Wacker Drive

Chicago, IL 60601-9703

(312) 558-5600

		Page 3016
1	APPEARANCES: (Cont'd.)	
2	For the Defendant:	BRADLEY P. SMITH, ESQ.
		SULLIVAN & CROMWELL
3		1701 Pennsylvania Avenue, NW
		Washington, DC 20006
4		(202) 956-7500
5		WILLIAM H. NEUKOM, ESQ.
		DAVID A. HEINER, JR., ESQ.
6		THOMAS W. BURT, ESQ.
		MICROSOFT CORPORATION
7		One Microsoft Way
		Redmond, WA 98052-6399
8		(425) 936-8080
9	ALSO PRESENT:	
10		JAY WARD BROWN, ESQ.
		LEVINE SULLIVAN & KOCH
11		1050 Seventeenth Street, NW
		Suite 800
12		Washington, DC 20036
		(202) 508-1125
13		
14		
15		
16		
17		
18		
19		
20		
21	Court Reporter:	EDWARD N. HAWKINS, RMR, CRR
2.2		Official Court Reporter
22		Room 6806, U.S. Courthouse
0.0		Washington, D.C. 20001
23	Drogoodings remarked by	(202) 682-2555
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- 1 PROCEEDINGS
- 2 THE COURT: Good morning everyone.
- 3 As I indicated, we have a couple of issues to discuss
- 4 this morning. Let me deal with the press issue briefly.
- 5 Why don't you call the case.
- THE DEPUTY CLERK: Civil Case 98-1233. State of New
- 7 York, et al. versus Microsoft Corporation.
- 8 Counsel, would you please identify yourself for the
- 9 record?
- 10 MR. WARDEN: John Warden for Microsoft.
- MR. KUNEY: Good morning, Your Honor. Steve Kuney for
- 12 the plaintiffs.
- 13 THE COURT: Is there anybody here from the press,
- 14 representing the press?
- 15 MR. BROWN: Jay Brown on behalf of the media.
- 16 THE COURT: Mr. Brown, if you would come forward. I
- 17 just had a couple of questions.
- 18 My understanding is that there are two requests -- or
- 19 requests for two witnesses depositions that have already been
- 20 conducted: Gates and Brock that you're still seeking.
- MR. BROWN: That's correct, Your Honor.
- THE COURT: And what's the need for these depositions?
- 23 I mean, I issued my order on this issue almost two months ago,
- 24 and now we're in the middle of trial.
- MR. BROWN: Correct, Your Honor. And it is because of

- 1 the events at trial that the news organizations and the editors
- 2 at them here have concluded that these two deposition
- 3 transcripts have become newsworthy at this point sufficient to
- 4 justify requesting their release.
- 5 THE COURT: In what way?
- 6 MR. BROWN: Well, for example, with respect to
- 7 Mr. Gates' deposition, among the many mentions of Mr. Gates and
- 8 his role in events that are being tried here, Palm's Michael
- 9 Mace testified in several respects regarding Mr. Gates, and
- 10 although I haven't been here for all of the proceedings, my
- 11 understanding is that the testimony in several respects, and
- 12 certainly in Mr. Sullivan's opening remarks on behalf of the
- 13 plaintiff states, Mr. Gates' role was described in several ways
- 14 as relevant to the factual issues in dispute.
- 15 At the time that the media intervenors originally
- 16 moved for access to attend depositions, it was unclear whether
- 17 Mr. Gates would be deposed.
- 18 As Your Honor may recall, the parties had declined to
- 19 share with the media intervenors information about who would
- 20 and would not be deposed or when.
- 21 Mr. Gates was identified on the parties' trial witness
- 22 list as a conditional witness, someone who might be called,
- 23 depending upon what happened at trial.
- I understand that there's still some question about
- 25 whether he will be called as a witness, but as the testimony

- 1 has unfolded, editors of these news organizations, in their
- 2 exercise of their editorial discretion, have concluded that his
- 3 deposition testimony is sufficiently newsworthy to warrant
- 4 reporting at this time, and it's for that reason that they made
- 5 the request to the parties that his deposition transcript be
- 6 voluntarily released.
- 7 Similarly, Ms. Brock's has been the subject of
- 8 testimony by several witnesses, principally those testifying
- 9 for or about Gateway, Tony Fama and Peter Ashkin.
- 10 My understanding is that Ms. Brock and her role in
- 11 these events has also come up in connection with other
- 12 testimony before the court.
- The media intervenors, heading Your Honor's admonition
- 14 that they should narrowly confine their requests to matters
- 15 which they truly believe implicate the public interest and
- 16 concern, have tried to do just that here.
- 17 And when Your Honor indicated in the ruling on the
- 18 original motion that the media intervenors were not entitled to
- 19 access to all deposition transcripts on a blanket basis, they
- 20 have focused closely on those portions of the depositions --
- 21 or, rather, those deponents whose testimony appears to be most
- 22 newsworthy and have not come back to the parties or the court
- 23 requesting them unless and until they concluded that there is
- 24 significant public interest and concern in the likely content
- 25 of those depositions.

- 1 THE COURT: All right. Let me just ask. In terms
- 2 of -- I'm not requiring you to file a new motion. Are you
- 3 adding -- apart from indicating what you view as the need for
- 4 these two particular people and why you've selected them and
- 5 why you're asking them, is there anything that you want to
- 6 raise in terms of either the court's order or what you
- 7 originally filed? If not, I will deal with it in that context.
- 8 MR. BROWN: Your Honor, we would not have any
- 9 additional legal authorities to cite to the court.
- 10 We believe that the showing with respect to the Gates
- 11 and Brock's deposition meets the standard articulated by Your
- 12 Honor in the ruling on the original motion. And we don't
- 13 believe that Microsoft can carry its burden of demonstrating
- 14 any reason why, under the standard setting in Your Honor's
- 15 order, it would be unduly burdensome, unreasonable, and
- 16 embarrassing or annoying to release these depositions, redacted
- 17 to move confidential information pursuant to the operative
- 18 protective order.
- 19 THE COURT: I would say that a lot of that had to do
- 20 with access to the depositions. There's really no authority
- 21 lurking out there, which as I pointed out, that discusses
- 22 getting -- ordinarily getting discovery where the rules now
- 23 don't require you to have it filed. Having said, that I'll go
- 24 back.
- Let me hear from Microsoft at this point, since

- 1 they've given a more specific discussion of what they view as
- 2 their need. You had argued, Mr. Warden, yesterday that you
- 3 thought it was burdensome. Perhaps you can elaborate at this
- 4 point, either in response to what he has said or tell me why it
- 5 is particularly burdensome.
- 6 Have you done, for instance, the designations of
- 7 confidential and highly confidential? Has that process taken
- 8 place or not?
- 9 MR. WARDEN: I don't believe it has, Your Honor.
- THE COURT: Okay. Well, is there anything else you
- 11 want to add?
- MR. WARDEN: Yes, there is something else I'd like to
- 13 add.
- Mr. Brown did not articulate any reason for this
- 15 beyond the desire to have it when he requested it. This
- 16 morning he's articulated grounds which I believe the court will
- 17 have to find are inherently incredible. That is, that the
- 18 editors of these publications, who apparently exercised some
- 19 kind of unreviewable-by-anyone-else discretion, had no idea
- 20 that Bill Gates had some role in the matters being tried before
- 21 this court.
- He was deposed for three days before the liability
- 23 trial, and he was designated as a witness, as was Ms. Brock,
- 24 two months ago.
- So the idea that something happened in Mr. Sullivan's

- 1 opening statement or in the testimony of a witness who happened
- 2 to mention Mr. Gates' name, now these -- these editors up on
- 3 Mount Olympus have figured out that he has something to do with
- 4 the case is ridiculous.
- 5 That completes my statement.
- 6 THE COURT: I'm sorry, I wasn't able to keep a
- 7 straight face, but --
- 8 (Laughter in the courtroom.)
- 9 MR. BROWN: Your Honor, could I respond briefly?
- 10 THE COURT: Yes.
- 11 MR. BROWN: In defense of the editors whom I
- 12 represent, I think they were aware that Mr. Gates had an
- 13 involvement in the case.
- My point, Your Honor, is that heeding the court's
- 15 admonition not to overextend requests for access, the editors
- 16 waited until it became apparent from the testimony unfolding at
- 17 trial that these particular witnesses would have more than a
- 18 background role to play in the events that are at issue in this
- 19 particular proceeding.
- 20 As Justice Marshall famously observed, Editing is a
- 21 task best left to editors and not one in which the courts are,
- 22 generally speaking, entitled to interpose themselves.
- 23 Having formed the professional judgment that these
- 24 deposition transcripts are now of significant public interest
- 25 and concern, the news organizations involved came to the

- 1 parties and requested those deposition transcripts.
- We don't believe Microsoft can show any substantial
- 3 reason why it would be burdensome or unreasonable to release
- 4 the redacted versions of those transcripts at this time on a
- 5 schedule that would make them available to the public before
- 6 those witnesses testify here, if in fact they do testify.
- 7 THE COURT: All right. Mr. Warden, the one thing you
- 8 did not address, and I don't know whether there's anything you
- 9 want to say more specifically, but in the aspect of the
- 10 burdensomeness, et cetera.
- MR. WARDEN: The burdensomeness arises from the fact,
- 12 as I said the other day, Your Honor, that we are engaged in a
- 13 trial. Everyone is busy already doing the business of trying
- 14 the case, and the more collateral matters we have to deal with,
- 15 the less time we can spend working on the case or the longer
- 16 our young colleagues have to stay up at night.
- 17 And I don't think -- Mr. Brown may want to talk about
- 18 editorial discretion and judgment. There's no evidentiary
- 19 filing by the press that the editor of some particular
- 20 publication -- and we know why there isn't -- all of a sudden
- 21 decided that Bill Gates had something to do with this case
- 22 after some witness testified. I don't see any affidavit
- 23 advising the court that, you know, "I started thinking about
- 24 this and all of a sudden last week I realized Bill Gates was at
- 25 Microsoft."

- 1 THE COURT: All right. I'll give some further thought
- 2 to this. I just wanted to make sure I had the arguments set
- 3 out.
- 4 Let me move to another issue. Mr. Brown, I will let
- 5 you know. I just wanted to make sure I had a fuller record.
- 6 And, as you know, the case law in this area is nill, and so it
- 7 makes it very difficult to do this in terms of trying to
- 8 balance it. So I'm not going to leap forward without looking
- 9 it at very carefully.
- MR. BROWN: I appreciate that. Thank you, Your Honor.
- THE COURT: Now, let's move on to one other order of
- 12 business.
- 13 And before I get into the last issue about the
- 14 deposition designations and the designations from the liability
- 15 trial, let me just bring something up that Microsoft had put in
- 16 in one of their footnotes of their motion, which was that the
- 17 states had exceeded the court's three-page limit in responding
- 18 to Microsoft's informal motions which have been these almost
- 19 daily motions in limine.
- I did set a three-page limit. The purpose of setting
- 21 it was to ensure that I did not get a lot of additional
- 22 rhetoric that I didn't need, didn't have time to read, you
- 23 didn't have time to write. I wanted you focused on what the
- 24 issue was and they would be in the nature that you would have
- 25 as a preliminary issue.

- 1 There have been a couple of instances where I've
- 2 received a longer than three-page, although it hasn't been
- 3 particularly excessive, and in part I think it's in response to
- 4 my pointing out that I was not getting detailed responses, and
- 5 this was your record, and so if you didn't put it in there, I
- 6 was going to make rulings without, you know, having a very full
- 7 record from each of you. So I have asked that you do that.
- 8 And so I think some of the responses have turned out
- 9 to be longer than the three pages. I haven't complained about
- 10 it or said something about it because, frankly, when you have
- done it, it's been useful, and you've pointed things out that
- 12 I've needed in order to make a ruling whichever way I went on
- 13 it. So, I haven't considered it as excessive.
- I am not lifting my three-page limit, but I am
- 15 indicating that if there are occasions, you don't need to ask
- 16 leave of the court. As long as you use it judiciously in terms
- of when it goes over the three pages, I will not -- I will
- 18 accept them and look at them, and that goes for your end, too,
- 19 in terms of doing it.
- If I find that you're starting to go, wander off into
- 21 rhetoric I don't need to read and making theme longer
- 22 unnecessarily, you will definitely hear from me. But at this
- 23 point they have been focused and have helpful to the court in
- 24 making my rulings. So let me deal with that issue first.
- Let's move to the more serious issue. There are two

- 1 issues that Microsoft raised in their motion. One is the
- 2 additional deposition designation of 18 witnesses, and the
- 3 other part was designations of witnesses' testimony in the
- 4 liability portion. I'm going to deal with them separately
- 5 because they have separate issues.
- 6 I want to point out that I waited until today because
- 7 I wanted to take yesterday evening to go through very carefully
- 8 my court orders, the transcripts of the proceedings, and notes.
- 9 There have been a few meetings that we've had that have not
- 10 been on the record. They've been all sort of procedural. But
- in all cases I have done orders that have clearly set out --
- 12 I've set deadlines in every instance, I've done an order that
- 13 sets out what those deadlines are, so everything that's been
- 14 discussed one way or the other has wound its way up into an
- 15 order of one sort or another. So we've had a record. So I
- 16 went back to look at it. So let me set this out to put it into
- 17 context to deal with these issues.
- Now, the defendant's motion that was filed was filed
- 19 after the defendant evidently was notified this Saturday of 18
- 20 deposition witnesses. The notification consisted of the
- 21 designation of the portions of deposition testimony they wanted
- 22 to use. This is the first the defendant and the court has
- 23 heard about these additional witnesses.
- These 18 individuals have never been identified as
- 25 plaintiff witnesses before this letter evidently to Microsoft

- 1 and the motion, which is in the first notification I've had of
- 2 it.
- Now, let me go back historically. The order dated
- 4 September 28, 2001, indicates that the witness lists are to be
- 5 finalized by February 8th, 2002.
- The final witness lists were exchanged by that date
- 7 which prompted the plaintiffs to file their emergency motion to
- 8 strike 18 belatedly-named Microsoft witnesses.
- 9 On February 13th, 2002, the parties submitted a joint
- 10 status report at the court's request regarding the nature of
- 11 the evidentiary hearing.
- Notably, plaintiffs proposed in the joint status
- 13 report, quote, each side should be permitted to call no more
- 14 than 20 witnesses live or by deposition, unquote.
- 15 So the witnesses from the beginning have been intended
- 16 and it was my understanding that witnesses included live and
- 17 deposition.
- 18 Ultimately, I didn't impose the limitation of the 20
- 19 witnesses. But the proposal is important in that it reflects
- 20 the manner which the parties were dealing with the introduction
- 21 of deposition testimony as evidence. Such introduction would
- 22 be treated as the presentation of a witness.
- 23 And this view is again reflected in the parties'
- 24 proposal for the, quote, presentation of witnesses by
- 25 deposition, unquote, which appeared in section 3 of that joint

- 1 report.
- Now, following that submission the court had a meeting
- 3 with the parties on February 20th, 2002, to discuss outstanding
- 4 issues relating to the evidentiary hearing. One of the major
- 5 topics of discussion at the meeting was the time to be allotted
- 6 to each side for the presentation of evidence.
- 7 The court was careful to double-check with the parties
- 8 to ensure that the time proposals included the presentation of
- 9 any deposition testimony; in particular, through the
- 10 presentation of witnesses by videotape, which is what my
- 11 understanding was, so it would be counted as a witness and
- 12 would be included in the time frame.
- The court held a follow-up conference call to this
- 14 meeting on February 25th. That meeting and the ensuing
- 15 conference call were memorialized in an order dated February
- 16 27th.
- 17 In the February 27th order the court denied the
- 18 plaintiffs' motion to strike and allowed the plaintiffs to
- 19 continue to seek discovery from and to depose the 18 newly-
- 20 added Microsoft witnesses up until March 18th. At this point
- 21 the trial was supposed to have started on March 11th.
- In this regard the February 27th order noted that
- 23 plaintiffs had listed 16 witnesses to be presented during their
- 24 case in chief and Microsoft had listed 31 witnesses to be
- 25 offered in its response.

- 1 In the February 27th order the court also finalized a
- 2 number of the procedures for the evidentiary hearing. Among
- 3 other things, that order memorialized the parties' agreement on
- 4 the hour limitation of 100 hours for each side with the
- 5 possibility that additional hours may be available in specific
- 6 circumstances.
- 7 I also adopted a number of the procedures that had
- 8 been offered by the parties in their February 13th status
- 9 report.
- 10 As an oversight, the February 27th order was silent as
- 11 to the parties' procedure outlined in section 3 of the February
- 12 13th joint status report which related to the presentation of
- 13 witnesses by deposition.
- 14 This oversight was pointed out by the parties during a
- 15 later conference call with the court. In response to that, I
- 16 issued an order dated March 2nd where I specifically adopted,
- 17 without exceptions, since none had been noted to me, the
- 18 procedure for the presentation of witnesses by deposition that
- 19 have been set out in section 3 of the February 13th joint
- 20 status report.
- Now, on March 1st in the joint pretrial statement,
- 22 without exception, the parties reiterated their intent to
- 23 comply with section 3 of the February 13th joint status report.
- In their revised pretrial statement -- and this is at
- 25 40 in the joint pretrial statement -- the parties reiterated

- 1 their intent to comply with section 3 without exception, and
- 2 this revised pretrial statement was filed on March 3rd.
- And in that it indicated: Neither side will call by
- 4 deposition, rather than as live witness, any witness, other
- 5 than a hostile witness or a representative of an opposing
- 6 party, as specified in rule 32(a)(2). Witnesses to be called
- 7 by deposition shall be identified to the other side by Monday,
- 8 March 4th.
- 9 Now this was done the day before it was due. No
- 10 exception was put in. Nothing was put in that indicated there
- 11 was a problem with this.
- On March 4th, one week prior to March 11th, when the
- 13 date for the evidentiary hearing was supposed to start,
- 14 plaintiffs filed a revised version of their proposed remedy,
- 15 but no deposition designations.
- In response, Microsoft the next day filed an emergendy
- 17 motion seeking to continue the March 11th trial date so that it
- 18 could conduct limited discovery with regard to the revisions to
- 19 plaintiffs' remedy. They asked for two weeks.
- 20 At the prehearing conference on March 8th I granted
- 21 Microsoft's motion to continue in part and delayed the start of
- the hearing for one week to March 18th instead of the two weeks
- 23 they asked for.
- 24 Microsoft was granted leave to conduct limited
- 25 discovery regarding the changes to the plaintiffs' remedy, and

- 1 plaintiffs were ordered to produce for deposition 30(b)(6)
- 2 witnesses as soon as possible.
- Just this past Thursday I met with counsel in the jury
- 4 room to discuss when we would be breaking this Monday in a few
- 5 other issues, housekeeping things. I was told by plaintiffs'
- 6 counsel that Carl Shapiro would be the last witness. No
- 7 mention was made of 18 deposition witnesses by designation, nor
- 8 that there were any other issues with this.
- 9 I would have expected to have, frankly, had them
- 10 presented by videotape deposition and they certainly would have
- 11 counted toward the time that would have been allotted. So I
- 12 was told that was the end of it.
- Now, as I view this history, the schedule contemplates
- 14 that all witnesses will be identified by February 8th the
- 15 universe of witnesses, whether you ultimately call them or not,
- 16 whether they are to be presented by deposition or in court,
- 17 live. On March 4th the parties were to indicate which
- 18 witnesses, already identified on the witness list, would be
- 19 presented by deposition rather than live in court. Although by
- 20 deposition, by practice that is generally presented. It's not
- 21 handed up as an exhibit. It's generally either read into the
- 22 record. If it's videotape, you're shown or whatever.
- 23 After that, the parties agreed that the specific
- 24 portions of testimony to be presented must be designated five
- 25 days before the deposition testimony was to be presented to the

- 1 court and counter-designations were to be provided two days
- 2 before the testimony was to be presented. And that was
- 3 basically the way it was set out, for witnesses deposition,
- 4 identifying them and then working on the specific portions of
- 5 the deposition.
- 6 Now, I would note plaintiffs never amended their final
- 7 witness list, which listed 16, not 34, nor did plaintiffs ever
- 8 amend their March 4th designation of deposition testimony, nor
- 9 did plaintiffs add any witnesses to the joint pretrial
- 10 statement which is the day before you would have been required
- 11 to set out these witnesses.
- 12 Plaintiff clearly had time to do all of this before
- 13 the trial started belatedly on March 18th. At some point
- 14 before the trial started something should have been said.
- In late February, I would note that the court
- 16 discussed with plaintiffs and Microsoft at great length the
- 17 difference between the size of their witness lists and made
- 18 arrangements in the hour limitations to compensate for this
- 19 difference.
- We had a couple of phone calls about this because of
- 21 the disparity and whether this was fair to have the time be
- 22 equal, et cetera. Nobody said anything about reserving or the
- 23 possibility or any issue about additional deposition witnesses
- 24 that might be counted into it. It was presented, as of last
- 25 Thursday, as 16 witnesses, period.

- Certainly, once deposed, if plaintiffs plan to present 1 any of the testimony of the 18 witnesses as part of their case 2 in chief -- and I don't know where these witnesses come from and I'll get to that in a minute -- I mean, they should have 4 amended their witness list to add them somewhere along the 5 line; should have indicated in their pretrial statement, the 7 first one or their revised one, that was there was an issue with this; and should have amended in some way their March 4th 8 designation of these hostile witnesses to be presented via 9 deposition testimony. All of this should have been done before 10 the trial started or certainly at the very beginning. Certainly 11 12 at that point all of the discovery would have been completed. Now, specifically with regard to the March 4th 13 The parties included in their joint pretrial 14 statement filed on March 1st, revised on March 3rd, well after 15 16 they've resolved the issue of the 18 additional witnesses, so 17 they are certainly on notice about the witnesses and whether they wanted to add them at this point or not. 18
- So I'm responding to a particular argument that the plaintiffs made. I don't think there's any merit to plaintiffs' argument that my March 2nd order somehow didn't adopt the March 4th deadline, although it has it in there.
- 23 If that deadline had not been feasible or had needed 24 some amendment, then the plaintiffs should have indicated in 25 some way, when you pointed out that I had not included it --

- 1 you all set the March 4th deadline which I adopted. In the
- 2 pretrial statement, which was the day before it needed to be
- 3 designated, it should have certainly put you on notice that
- 4 there might have been a problem. Nothing was said.
- 5 So plaintiffs were well aware of these deadlines.
- 6 They never amended the witness list. You don't just send off
- 7 the designation. The issue is to put people on notice about
- 8 the witnesses. And they gave no hint that you planned to
- 9 introduce the deposition testimony of 18 additional witnesses
- 10 during your case in chief. As I said, until this past Saturday
- 11 we didn't know this.
- 12 And certainly the parties and I have had countless
- 13 discussions revolving around deadlines in the case. If there
- 14 were problems, adjustments were made. They never -- you never
- 15 brought up this issue.
- It's easier to do these adjustments prior to trial, as
- 17 I have done, in order to balance out so nobody is prejudiced.
- 18 People get to present their case, who they want, and if there
- 19 are problems for the other side, either in depositions, I have
- 20 allowed both sides to be able to do this.
- They put it additional 18 witnesses I extended
- 22 discovery for you. You did revisions, I allowed them to have
- 23 discovery. You had some witnesses that you had on your list,
- 24 you deposed, they deposed. You wanted to substitute people for
- 25 the same companies, but put different people in. I let you do

- 1 it. I let them depose them.
- I mean, we could do this in advance. Once you get
- 3 into the trial it is much more difficult to make these
- 4 adjustments. None of this was brought up.
- 5 And certainly we've had a number of discussions. It
- 6 isn't as if I'm not accessible and have not been willing to
- 7 discuss it. And I've learned -- I've been a judge for a long
- 8 time -- I've learned you set deadlines. If people need
- 9 extensions, they come discuss it. So everybody is on the same
- 10 page, knows exactly what's happening.
- And these pretrial deadlines are standard in any civil
- 12 trial and they serve an important purpose. This isn't
- 13 something I invented. These are in the local rules. This is
- 14 the way trials are done.
- 15 And the purpose of having the deadlines is so both
- 16 parties are on notice at the start of the trial as to the
- 17 entire universe of witnesses that the parties will call,
- 18 excluding rebuttal, of course. And they can plan a strategy
- 19 for the case. This ensures an orderly trial. And the court is
- 20 on notice of what the parties are presenting. I'm able to make
- 21 decisions about how I want to manage the trial.
- It also avoids problems with a party making arguments
- 23 when you make changes in the middle of the trial. They would
- 24 have used their time differently. They would have done a
- 25 different cross. They would have done something differently.

- 1 It avoids all of this.
- 2 And I would like to point again that I cannot believe
- 3 we had these long discussions about the disparity between the
- 4 number of witnesses, 16 and 31, when it now turns out to be 34
- 5 and 31.
- I even went so far as to give you extra time, the
- 7 plaintiffs, because of this disparity. I factored in some of
- 8 these things. And if there were changes, particularly ones so
- 9 substantial, I would have expected to have been notified.
- 10 And, frankly, if I had known that there were going to
- 11 be this many witnesses from both sides I might have made a
- 12 different set of rules and procedures about how these witnesses
- 13 were going to get presented.
- I was left with the impression you would call people
- 15 and that the deposition designations would be done through the
- 16 videotape, presentations to the court, both sides, would have
- 17 counted towards the time and would have been presented as part
- 18 of the case.
- 19 I've set out what I view -- I've gone back and looked
- 20 at all of the orders, transcripts. So, if you disagree with
- 21 this, you know, my statement of the history, please bring it
- 22 up. I do have a few questions I want to ask and then I'll let
- 23 you get into whatever argument you want to present to me.
- 24 For the plaintiffs, I'd like to find out. These 18
- 25 additional people, are they -- it's not clear to me whether

- 1 you're presenting them as witnesses. In other words, are they
- 2 going to be presented through videotape? Are you just going to
- 3 try and do these as exhibits? Or I'm just going to get
- 4 transcripts?
- It seems to me that in terms of the timing, the
- 6 expectation was that they would be part of the time so that all
- 7 of this would count for both sides, would count in the,
- 8 whatever hours we set. And the hundred hours were set with the
- 9 expectation. Nobody left a caveat that there might be some
- 10 additional witnesses.
- We discussed this in the universe of 16 and 31, not in
- 12 some other, you know, possibility of having different
- 13 witnesses.
- You're also, if you're planning on doing it in terms
- of exhibits, then planning on transcripts, you're basically
- 16 going to be at the end of your case in chief, since we are near
- 17 the end, we've -- we're in the next to last witness and you've
- 18 got one other witness.
- You're going to dump all of this stuff on me I'm
- 20 supposed to read before, you know, the end of your case and
- 21 they start their case? I can do it. I've been looking at the
- 22 stuff in the evenings. But it then is an end run around the
- 23 time of the time allocations because you're doubling up the
- 24 witnesses.
- 25 The other question I have -- I'd like to know how you

- 1 plan on presenting them. It wasn't clear to me. I can't
- 2 figure out who these 18 witnesses are. I know some of the
- 3 names, but not all of them.
- I mean, are they all, you know, representatives of
- 5 Microsoft? You've indicated that 13 of the 18 are on
- 6 Microsoft's witness list. Who are the other five?
- 7 And, as I said, part of the reason I wanted to know
- 8 how you were presenting them, because one part you say it's not
- 9 going to take any time in the court. I'm not quite sure what
- 10 that means.
- So I'd like to know who they are, when you heard about
- 12 them, et cetera, and how you're planning on presenting them.
- 13 And I have some questions of Microsoft.
- 14 MR. KUNEY: I'll see if I can't answer the court's
- 15 questions, Your Honor.
- 16 First of all, I appreciate the court's recitation of
- 17 the history. We certainly didn't ignore what we understood to
- 18 be a deadline. I heard you say that you were not impressed
- 19 with the argument that we did not understand the March 4th
- 20 deadline.
- 21 But I think the one piece of the history that perhaps
- 22 seemed more salient to us, although we may have not acted
- 23 completely prudently in terms of the court's sort of
- 24 retrospective, is the fact that depositions in fact were still
- 25 going on on March 4th.

- 1 Part of the reason that we did not perceive that to be
- 2 a binding part of what had been carried forth in to the court's
- 3 orders is because the aftermath of the addition of so many
- 4 additional witnesses and the need for us to take so many
- 5 depositions was still playing out, even as the pretrial
- 6 statement was being submitted.
- 7 THE COURT: Okay. So are all of these 18 witnesses
- 8 people that you deposed later?
- 9 MR. KUNEY: Yes.
- 10 THE COURT: Or earlier people?
- MR. KUNEY: Seventeen of the designated depositions
- 12 are from people who are deposed, the earliest date is -- let me
- 13 just count. Looks like five of them had been previously
- 14 deposed.
- THE COURT: Previously deposed?
- 16 MR. KUNEY: I'm looking at the dates. There's one or
- 17 two in January, a number in early February, and then a
- 18 significant number of them are in the 20s of February.
- 19 There are one, two, three -- three of them that do not
- 20 occur until March. The last was March 5th.
- THE COURT: Okay. But that's my point. Why didn't
- 22 you -- I mean, you know, courts don't put dates in orders for
- 23 just no good reason. And if you needed an extension of it we
- 24 could have done it, particularly where we pushed it back a
- 25 week.

- 1 MR. KUNEY: Let me see if I can explain what we
- 2 thought we were doing with the information. You asked about
- 3 our plan and it may help explain how we have dealt with this
- 4 process, including the comment that we made about not expecting
- 5 to take up a significant, or perhaps, any court time.
- These are depositions that were taken during the
- 7 remedy phase where we asked people pointed questions about the
- 8 various remedy proposals.
- 9 Our intention was not to show much video from this;
- 10 half an hour, perhaps at most. We were, in fact, still
- 11 debating whether we even wanted a half an hour. But this is
- 12 material that we wanted in the record so that when it came time
- 13 to do post hearing findings we could make reference to these
- 14 depositions of managerial-level Microsoft employees. That's
- 15 who all these people are.
- These are not third parties. These are all Microsoft
- 17 employees who were deposed during the remedy phase. Most of
- 18 them and most of the depositions taken during that kind of last
- 19 crush of discovery that was necessitated by the expansion of
- 20 the Microsoft witness list. Thirteen of the 18 people for whom
- 21 we have submitted designations in fact are on the Microsoft
- 22 witness list.
- We submitted designations because we believed, given
- the rules about admissions and the use of depositions by a
- 25 party, that we could simply insert into the record statements

- 1 by those people, have it of record for purposes of our post
- 2 trial findings; perhaps expedite the cross-examination of those
- 3 people because those points would be established.
- 4 To the extent Microsoft wanted to respond they would
- 5 have counter-designations. They could have the people address
- 6 the issues in their written testimony.
- 7 So we saw that as not an imposition on the court's
- 8 time, not a naming of additional witnesses, but an introduction
- 9 into the record of admissions by Microsoft employees that would
- 10 be useful with respect to our post hearing findings.
- 11 And given that this process continued until a lot
- 12 later than any of us wanted, we had understood, perhaps
- 13 incorrectly, but we had understood that the operative deadline
- 14 was the five-day deadline, which is why when the Microsoft
- 15 counsel informed us that they expected their cross-examination
- 16 to run through the end of the week, this week, we counted back
- 17 five days and said, "Well, before we close our case, to the
- 18 extent we're interested in having these designations be of
- 19 record so that we can make reference to them and the court can
- 20 make use of them if you find them helpful with respect to our
- 21 findings, we would make sure that we did that before we rested
- 22 our case."
- 23 And it was on that counting, five days back from this
- 24 Thursday, that we perceived that the deadline for providing the
- 25 designations was this Saturday, not because we are expanding

- 1 our witness list in the conventional sense, not because we
- 2 expected to come in and take 10 hours showing videotape, but
- 3 because we had admissions by representatives of a party that we
- 4 wanted to make of record for purposes of supporting our
- 5 findings when the hearing is over.
- 6 THE COURT: Well, the issue of using depositions is
- 7 not a problem. Deposition designations are used commonly.
- 8 Pretrial statements include a particular provision where you're
- 9 supposed to set it out. I mean, the issue is not that you
- 10 can't do this in the sense of doing depositions. The problem
- 11 here is twofold.
- One. You didn't discuss any of this with the court or
- 13 it sounds like with Microsoft. You dealt with this in a way
- 14 that I gave you an opportunity in all of this case setting out
- 15 what you wanted, sometimes you got it, sometimes you didn't,
- 16 but I at least heard from you.
- 17 You all started this out, which is I think an
- 18 appropriate way of doing it, of considering them as witnesses.
- 19 Now, you label -- that's why I went back to look historically
- 20 so that they would be put on the list as a witness and then
- 21 later you would make a decision as to whether you wanted to
- 22 actually call them or they were simply portions of whatever
- 23 their deposition testimony was.
- And since the depositions have to be statements of the
- 25 party opponent of some sort, they can't just be anybody unless

- 1 you go by a different set of rules as to availability, but
- 2 nobody raised that issue. You were talking strictly about
- 3 witnesses in terms of admissions or however you want to put it.
- 4 They would -- you would make a decision closer to trial
- 5 relating to that.
- 6 Nobody discussed -- and the step that's missed here is
- 7 putting people on notice that there were going to be these
- 8 designations. There were going to be these witnesses.
- In terms of the date, the March 4th date, you prompted
- 10 me -- this isn't sort of I picked it up and it got lost in the
- 11 order -- we had a conference call -- I believe it was a
- 12 conference call, either that or we were discussed it in
- 13 person -- but it was brought to my attention that I had left it
- 14 out.
- 15 MR. KUNEY: That's correct.
- 16 THE COURT: And that I should pick it up, and I picked
- 17 it up and put the date in as presented to me. I didn't come up
- 18 with this date. I didn't pull it out of the thin air, as I
- 19 recall.
- 20 MR. KUNEY: Your Honor, I think you put in a one-line
- 21 reference to incorporating the February 13th stipulation.
- 22 THE COURT: Right, which is exactly what you asked me
- 23 to do. You did not say to me, This isn't a good date. Okay?
- 24 You've had several opportunities to do this. And this is what
- 25 concerns me.

- 1 MR. KUNEY: No.
- THE COURT: You didn't say it when we put the order
- 3 in. You evidently decided I didn't really mean March 4th, but
- 4 never came back to discuss it with me so that we could have
- 5 picked another date.
- In the pretrial, when you had to present something,
- 7 you found March 3rd. You indicate that it's due March 4th.
- 8 There's no caveat in there. I went back -- I was astounded.
- 9 went back and looked at it. It doesn't say anything in there
- 10 that you're still doing depositions, you may have a problem.
- 11 Certainly, if you deposed some of these people back in
- 12 January and February, that's early enough to have figured out
- 13 you wanted these people and could have either put them on the
- 14 list or at least have started to do some of these designations.
- 15 March 5th is the last one. At that point it seems to
- 16 me that, you know, we had two weeks in there before trial
- 17 started, even if you had brought it up at least just before
- 18 trial.
- The concern that I have with this is that by doing it
- 20 in advance, nobody can claim that they've got -- that they
- 21 weren't on notice and therefore, you know, they would have done
- 22 something different.
- MR. KUNEY: Understood.
- 24 THE COURT: To create a problem with this.
- MR. KUNEY: I appreciate that. Just one slight

- 1 clarification.
- The pretrial statement does not mention March 4th.
- 3 Under plaintiffs' deposition designations at page 9 we do
- 4 reference you're incorporating the hearing procedures in our
- 5 February 13th stipulation.
- So, for better or worse, that merely carried forward
- 7 our misapprehension about the deadline. We certainly didn't
- 8 submit something on March 3rd that says we know we have to name
- 9 people by March 4th.
- 10 THE COURT: Let me take a look at the revised. I
- 11 don't have it out here. I will pull it out -- are you looking
- 12 at 40?
- MR. KUNEY: I'm looking at page 9 of the revised joint
- 14 pretrial.
- THE COURT: Is it paragraph 40?
- 16 MR. KUNEY: Let me get it back. Actually, in mine
- 17 it's under Roman 6, plaintiffs' deposition designations.
- THE COURT: I will go back and look at it because it
- 19 seemed to me that we had -- I thought it had the date in there,
- 20 but I could be wrong about that.
- 21 MR. KUNEY: The previous paragraph makes reference to
- 22 exchanging exhibits on March 4th, but this designation
- 23 paragraph is just a single sentence.
- 24 And, Your Honor, all I can tell you is that we were -
- our not bringing it to the court's attention merely reflects

- 1 our misunderstanding of where we were procedurally. We
- 2 certainly did not perceive that we were hiding something from
- 3 someone or evading a deadline that we understood to be a
- 4 deadline.
- We don't normally make it a practice to let court
- 6 deadlines go by knowingly and not do something about them. And
- 7 you're quite right, that you were very accessible to us. And
- 8 had we recognized this problem, we would have brought it to the
- 9 court's attention before the time we submitted the
- 10 designations.
- But as you just went through what you thought we were
- doing a few moments ago, if I heard you correctly, you said
- 13 we're either going to have these people deposed -- brought in
- 14 as witnesses by deposition or merely have portions of their
- 15 testimony utilized as designations.
- 16 Rightly or wrongly, we perceived those as distinctive
- 17 processes. We did not believe we are expanding the witness
- 18 list. We did not believe that we are doing anything
- 19 inappropriate consistent with the timing deadlines the court
- 20 had set.
- We simply thought we were putting into the record
- 22 admissions by Microsoft managerial employees that could be
- 23 useful for post hearing findings.
- 24 THE COURT: Let me just indicate. I'm not sure what
- 25 you're relating to in terms of indicating -- I mean, the

- 1 witness list was a witness list that indicated they would
- 2 either be live or by deposition, and then the second deadline
- 3 was to be when you would indicate which witnesses would be done
- 4 by deposition, and then we worked out a different deadline as
- 5 to when you would actually exchange the designation.
- 6 So the deadlines that are missed are not the
- 7 designations. The deadlines that are missed is noting them as
- 8 witnesses by deposition.
- 9 MR. KUNEY: No. I understand that. And I think -- I
- 10 mean, Microsoft, and maybe we should have objected to this as
- 11 well. We got a letter last week about Mr. Greene's deposition.
- Now, Mr. Greene's deposition hadn't been taken by
- 13 March 4th, but there was no other deadline established for
- 14 designating later-taken depositions.
- 15 THE COURT: Then, as I said, I don't know when, and
- one of the questions I had was when Mr. -- he was deposed.
- MR. KUNEY: He was deposed in the week that the court
- 18 postponed the trial.
- 19 THE COURT: Okay. He was deposed sometime after March
- 20 4th.
- MR. KUNEY: That's correct.
- THE COURT: In terms of -- but certainly it was done
- 23 not later than the commencement of the trial on March 18th.
- And I would simply say that obviously this one would
- 25 have -- there would have been no, clearly no way that they

- 1 would have been able to do it certainly by March 4th deadline.
- 2 MR. KUNEY: No, I agree with that. I was really
- 3 suggesting two things.
- 4 Number one, to me, that confirms some question about
- 5 the applicability of the March 4th deadline. But in terms of
- 6 orderly trial process, we are providing the designations in
- 7 advance. There's an opportunity for counter-designation.
- 8 There's an opportunities for these witnesses, most of whom are
- 9 on their witness list, to shape their written testimony as they
- 10 deem necessary to respond to whatever may be in the
- 11 designations.
- 12 On the contrary, we get a letter days before our case
- is to close telling us that they intend to play Mr. Greene's
- 14 video, with very little opportunity, if any, for us to adjust
- 15 our trial presentation, when they had certainly taken
- 16 Mr. Greene's deposition before the delayed commencement of the
- 17 hearing. And if the deadline is before the hearing begins,
- 18 there ought to be notification, then it seems to us at a
- 19 minimum that deadline should apply to both sides. And if our
- 20 designations --
- 21 THE COURT: It will apply to both sides. I'm going to
- 22 be even handed on this. You're both going to either wind up
- 23 not having people in or we will make some other adjustments.
- 24 But what I don't understand is if you deposed people
- 25 back in January and February, that's well before the March 4th

- 1 date, why were they not designated at least?
- 2 MR. KUNEY: Because our -- I guess I'll repeat myself
- 3 in part.
- 4 We thought it made sense to complete the deposition
- 5 process, see what the witnesses had said, and select a refined
- 6 and narrowed version of designations.
- 7 We had not completed the deposition process. And
- 8 again, we had the misapprehension about the binding nature of
- 9 the March 4th deadline. We understood, perhaps incorrectly,
- 10 that the five-day deadline was the binding deadline, and so we
- 11 submitted the designations as a package after we had completed
- 12 the entire discovery process and could make what we thought
- 13 were refined, limiting decisions about how much of this
- 14 material we needed to submit to the record.
- 15 THE COURT: All right.
- 16 MR. KUNEY: So we did it as a package consistent with
- 17 what we understood to be the five-day rule.
- 18 THE COURT: All right. Then let me hear from
- 19 Microsoft.
- 20 And from Microsoft, the question I have is obviously
- 21 an issue relating to Mr. Greene. And is there any prejudice to
- 22 Microsoft by the plaintiffs doing this late designation of
- 23 these 18 additional witnesses?
- MR. WARDEN: Well, there's tremendous prejudice in two
- 25 respects.

- One is if these depositions are to be played or read
- 2 into the record, which is what we assumed, as Your Honor did,
- 3 that will require, we believe, about 24 hours, and we believe
- 4 that our counter-designations, just assuming that they are only
- 5 half, would be another 12 hours, which will put off the
- 6 commencement of our case by approximately a week and a half.
- 7 THE COURT: Let me just ask. Are these that
- 8 extensive?
- 9 MR. WARDEN: Yes. They are quite extensive.
- We had a table prepared of the amount of time in
- 11 minutes designated in each of these designations and it totals
- 12 24 hours and 28 minutes. That's the depositions. That doesn't
- 13 include the prior -- we are not on to the prior trial testimony
- 14 and the old --
- 15 THE COURT: Let's leave that one out for a second.
- 16 I'm going to deal with that separately.
- 17 MR. WARDEN: I know. That's 24 hours and 28 minutes.
- In addition, Your Honor, you know, that forces us to
- 19 reschedule everyone that we've been trying to line up to
- 20 testify in our case.
- In addition, the amount of time required to do these
- 22 counter-designations is substantial. The order contemplated 48
- 23 hours but, you know, that was on the notion that when Mr. X's
- 24 deposition designations were made, then you would have Mr. X to
- 25 deal with, not 18 Mr. Xes.

We

- 1 And just preparing our counter-designations is going
- 2 to take a lot of work; will not, if we are required to do it,
- 3 be able to be completed by the time the plaintiffs should be
- 4 resting their case, and we will be submitting our motion for
- 5 judgment as a matter of law at the close of their case as we
- 6 advised the court in chambers.
- 7 This just disrupts everything. We would have
- 8 organized our trial presentation on cross-examination of their
- 9 witnesses differently had we had notice of all of this.
- 10 We would have used our time differently. We would
- 11 have asked for a greater amount of time to try the case. We
- 12 would have not lined our witnesses up to begin next Monday.
- 13 would have lined them up to begin at some much later time. So
- 14 there is a tremendous amount of prejudice here.
- 15 THE COURT: In terms of the timing, let's assume we
- 16 can do something with that, I'm not sure what. But let's
- 17 assume we work something with that out.
- In terms of from your perspective, you've indicated
- 19 that you would have organized the trial differently or done
- 20 cross-examinations differently, et cetera. Can you be more
- 21 specific?
- MR. WARDEN: Well, it's a little difficult because I
- 23 haven't read these 24 hours worth of designations, Your Honor.
- 24 You know, I've had other things to do and I haven't done that.
- 25 So it's hard to be more specific.

- 1 But if we had been with the 100 hour limit and we had
- 2 known we had all these people to deal with, we certainly would
- 3 have expended our cross-examination time differently. We may
- 4 have conducted those examinations differently. The directs that
- 5 we're working on as we speak we would obviously be writing
- 6 differently.
- 7 I think that there's obviously a clear prejudice when
- 8 the number of witnesses is more than doubled just before the
- 9 other side plans to rest its case or has told us it plans to
- 10 rest its case.
- 11 Your Honor, I'd like to respond to this notion that
- 12 there's something different about admissions of a party. It's
- 13 quite clear that the procedure for presentation of witnesses by
- 14 deposition involves representatives of an opposing party. It
- 15 says so in the first sentence.
- 16 (Reading) Won't call, other than as a live witness,
- 17 anyone except hostile or a representative of an opposing party.
- 18 Witnesses to be called should be identified by March 4th and
- 19 with respect to such witnesses -- that is, those identified by
- 20 March 4th, including representatives of an opposing party, then
- 21 the designation procedure starts.
- It couldn't be clearer on its face. I'm not -- by the
- 23 way, I do not suggest to the court any subjective bad faith by
- 24 the other side. That's not -- but we're dealing with trial
- 25 procedures, and the court -- the parties' joint submissions and

- 1 the court's orders have to be read objectively. And I think
- 2 the only objectively fair reading is the one that I've just
- 3 given.
- 4 Does Your Honor have any other questions?
- 5 THE COURT: Well, the other question is to address the
- 6 Tom Greene thing in terms of -- Greene, of course, was done
- 7 later and I gave you an additional time and we moved it back.
- 8 So, obviously, it would have been after the March 4th date.
- 9 MR. WARDEN: In fact, it was after March 11th, Your
- 10 Honor, because it was on March the 8th that you granted us the
- one-week extension and authorized us to take the deposition.
- 12 And I believe it was on the following Tuesday, the 12th --
- 13 might have been Wednesday, the 13th, I just don't remember --
- 14 one of the other of those days that Mr. Greene was deposed, and
- 15 we gave them notice -- I don't know. About ten days ago?
- 16 Yeah, about ten days ago.
- 17 THE COURT: Can you be more specific about exactly
- 18 when you gave notice?
- MR. WARDEN: I can have someone check that while I'm
- 20 speaking here to Your Honor because I don't have it in mind.
- 21 Fourteen days ago, Your Honor. And they did not
- 22 object and they gave us their counter-designations. Had they
- 23 objected, we would have filed a motion with the court, and I
- 24 submit we could have shown good cause for not making the March
- 25 4th deadline for a witness deposed on March 12th in a totally

- 1 new circumstance. That was the reason Your Honor gave us the
- 2 opportunity to take the deposition. And it's one person.
- 3 THE COURT: Anything else you want to add? I asked
- 4 for two questions.
- 5 MR. WARDEN: Your Honor, I have nothing more to add
- 6 unless Your Honor has questions, further questions for me.
- 7 THE COURT: In terms of the timing of this, I mean,
- 8 did not figure out how long. Is it 24 hours, roughly?
- 9 MR. KUNEY: Just to clarify a couple of things, if I
- 10 could.
- 11 First of all, the letter we got with the designations
- 12 for Mr. Green is dated April 5th.
- THE COURT: Okay.
- MR. KUNEY: Which by my count would not be 14 days
- 15 ago.
- 16 We had not intended, as I indicated in my earlier
- 17 comments, to spend more than an hour of actual court time on
- 18 playing video of the depositions.
- 19 So in terms of -- for sure, we would have said
- 20 something to everyone about scheduling if we had anticipated 25
- 21 or 30 hours of video presentation in the court. That was never
- 22 our expectation.
- THE COURT: But what you've done is, instead of having
- 24 it as court time, you have it as judge time. So -- I mean, I m
- 25 willing to do this. You know, this is what happens. That's

- 1 why I'm here as a judge.
- But as a practical matter, what you've done is you've
- 3 shifted the timing, which should have been included and
- 4 discussed, and I'm not interested in making this longer, so I'm
- 5 not going to do it that way.
- 6 But I mean, basically, what you've done is you've
- 7 shifted it so it doesn't come out of your time. It is part of
- 8 the record. It's not the usual way, frankly, to have
- 9 deposition designations. I've never had it simply presented.
- Now, granted, most of them are jury trials, but even
- in bench trials you either read it into the record, you do
- 12 something else. I mean, it becomes part of it. It's viewed as
- 13 a witness and generally you don't just hand it in, certainly
- 14 not without having a discussion with the court about it.
- But I mean in terms of the way we worked out -- the
- 16 way the case was to be handled, the way the witnesses were to
- 17 be handled -- frankly, if somebody discussed this with me, I
- 18 can think of lots of different ways that I would have managed
- 19 this trial so that we would have, you know, done it in a
- 20 different way; certainly at an earlier point in terms of
- 21 getting this information so that it could have been filtered
- 22 along the way as well as, you know, how the number of witnesses
- and how you've done this.
- I mean, Judge Jackson evidently required to you do
- 25 some summary witnesses. It was a whole series of different

- 1 ways of doing it. And, you know, I didn't have that
- 2 opportunity to do it.
- So, basically, what you've done is, if -- let's say it
- 4 adds up to 24 hours, I don't know whether it does or not, but
- 5 let's suppose it does. I get one hour in here. You've got 23
- 6 hours and whatever it is that they come up with in terms of
- 7 their designations that neither of you take out of your hundred
- 8 hours, but yours may be longer than they wind up as their
- 9 designations.
- 10 So it's not really totally even handed in terms of how
- 11 we do -- I could probably work out some way of doing the timing
- 12 of it. What concerns me more is that if you're coming up at
- 13 the end, they already, you know, within two days have to come
- 14 up with their direct, which may make a difference in terms of
- 15 how they want to present this now that they are getting it at
- 16 the end. It creates a problem if they would have done
- 17 something differently in their cross-examination.
- I mean, you create an issue of prejudice for them.
- 19 Time we can fool around with, but the prejudice issue of how
- 20 they would have presented their case when you bring it up in
- 21 the last week of a four-week presentation does make a
- 22 difference and does concern me in terms of how this is done.
- They haven't evidently sat down and gone through all
- 24 of these depositions and counter depositions to figure out, you
- 25 know, what might have been different. But I'll be frank with

- 1 you, I mean, that's why you set all of these deadlines in
- 2 advance.
- 3 Civil cases are not criminal. Criminal, you can bring
- 4 witnesses in and, you know, be Perry Mason or whatever. It
- 5 doesn't happen in civil cases. Civil cases, everybody knows
- 6 who's coming. You've deposed them. Every once in while
- 7 there's surprises, but, you know, generally it comes out, you
- 8 know, the way there's expectations of it and you plan your
- 9 cases to begin with.
- 10 And I've learned that you set these deadlines. You
- 11 get them so we are not in this position where -- the choice is
- 12 they claim prejudice, so I go forward and put them in what they
- 13 claim is a prejudice or I keep you from presenting it. That's
- 14 the choice as opposed to coming back to the court, discussing
- 15 it and setting it up early enough so we could have all gotten
- 16 this worked out without having a prejudice to either side.
- 17 MR. KUNEY: No. I appreciate that, Your Honor. And I
- 18 apologize on our behalf for our misunderstanding and our
- 19 contribution to the situation.
- 20 With respect to the prejudice point, let me just make
- 21 one observation if I could. Thirteen of the people are on
- 22 their witness list.
- THE COURT: They may not call them. They may decide
- 24 not to in terms of their decision, their strategy at the end of
- 25 the case about who they wanted to call, who they didn't want to

- 1 call.
- The designations at the end may force them frankly to
- 3 put people on in response to things that they might have asked
- 4 at an earlier point of the witnesses you had. I mean, there's
- 5 lots of different things that could have happened.
- If they are on their list, that's true, but the list
- 7 is so that we all know what the universe of witness is. It
- 8 doesn't necessarily mean that they would call them.
- 9 MR. KUNEY: I understand. But I just think in terms
- 10 of the practicality of there being actual prejudice to them
- 11 from our introducing as deposition --
- 12 THE COURT: It's not a prejudice if they are going to
- 13 call them and they are going to get up on the stand and they
- 14 would have this information. That's fine.
- The prejudice that they brought up, without being
- 16 totally specific, but they haven't looked at it, but I can't
- 17 say that I disagree with them necessarily, and am not -- don't
- 18 see that there could be a problem here, is the fact that they
- 19 didn't know when they were doing the cross. That's the
- 20 problem; is whether they would have handled something in a
- 21 different way in presenting it.
- 22 They can probably scramble around, or I can give them
- 23 additional time to do so, in order for them to now get their
- 24 case together, having a different contour from you at the end
- of your case. I'll have to give some thought to that. The

- 1 issue is, is what's already gone past.
- 2 MR. KUNEY: Your Honor, if I may, I just want to ask a
- 3 question about a comment you made earlier so we don't end up in
- 4 the same situation later.
- 5 THE COURT: Okay.
- 6 MR. KUNEY: You made a comment about notification with
- 7 respect to rebuttal witnesses. I'm not sure I heard exactly
- 8 what you said. And we don't want to get to May and again be
- 9 told that somehow we should have done something on a different
- 10 time.
- 11 THE COURT: In the rebuttal area -- and since I don't
- 12 have it in front of me I'm not going to do it off the top of my
- 13 head.
- Rebuttal is a little different because you don't know
- 15 what's going to happen. Things come out at trial that you wish
- 16 to respond specifically to. And so if you know -- the way I
- 17 left it, I believe, certainly if you know in advance you're
- 18 going to put them on in rebuttal -- in other words, you figured
- 19 out the case because you've done the depositions and you know
- 20 that if they -- you're planning -- unless they put no case
- 21 on -- that you're planning in response to do this rebuttal,
- 22 then you should list them.
- You're not supposed to sandbag them by not letting
- 24 them know. But there are instances where something comes up in
- 25 the course of the trial you did not anticipate, didn't expect,

- 1 or it came out stronger, whatever, and so you come up with a
- 2 witness. That's always been done. And I have some language
- 3 that gives you leeway.
- 4 That's why I said to you, you know, on the list I
- 5 excluded the rebuttal issue because I don't think it's in the
- 6 same position. You have to get through the trial to figure out
- 7 what you're going to put on in rebuttal. And that is a
- 8 tactical decision people make, usually near the end of whatever
- 9 defense case they have or certainly after the close of it, and
- 10 I don't have a problem with that. That's why I excluded that.
- We're talking about the universe of whatever you
- 12 present going forward in your case and in the defense case.
- 13 And the defense case, they can shift around, depending on what
- 14 you say and never call these people.
- In your case the expectation is that you probably will
- 16 call, you know, whoever they are. You can drop witnesses if
- 17 you decide to do that, but that's not -- you can always take
- 18 people away, it's adding them that's the problem in terms of
- 19 people planning for it and doing their -- you know, their
- 20 strategies around what their case is going to be presented as.
- 21 So rebuttal, you know, I've left it to the side.
- Let me, before I get, add the one additional thing
- 23 about the trial, the liability issue. In terms of the liability
- 24 issue, I need to get the materials.
- You have indicated certain transcripts and, frankly,

- 1 I'm not going to try and hunt and peck for this stuff, so you
- 2 need to put that material together so I can look at it. And I
- 3 need, frankly, Microsoft's counter-designations of whatever it
- 4 is -- you know, they don't have to be the same witnesses --
- 5 whatever you think -- and hopefully this isn't going to be a
- 6 like a whole new trial -- but, at any rate, in terms of what
- 7 you have, and then I will take a look at it and hear argument.
- But I can't make a decision in the abstract. I see it
- 9 as different. It is a record of the case. I told you it was
- 10 the record of the case. The findings, you know, were not
- 11 touched.
- You know, there's a few little problems about how
- things were handled, but I'm certainly willing to consider it,
- 14 and I don't see it in the same position at all. It is part of
- 15 the record and -- I just need to look at it so I can figure out
- 16 how you're using it, what's presented what the counter-
- 17 designations are. If I have questions or arguments I'll bring
- 18 that back to you.
- So you need to get that together at some point before
- 20 you do your findings so that we can make a decision if there's
- 21 issues that I think need to be clarified about their use.
- 22 MR. KUNEY: Is it necessary that we do that before we
- 23 officially close our case?
- THE COURT: You mean in terms of -- this part of the
- 25 case or the whole case?

- 1 MR. KUNEY: Yes, this part.
- THE COURT: No.
- 3 MR. KUNEY: Okay.
- 4 THE COURT: That's all part of the record and I
- 5 don't -- I don't see -- probably -- you gave the designations,
- 6 as I recall. Microsoft is on notice of what they are, so they
- 7 can go look and see if there's something there they want to
- 8 address in their case.
- 9 I don't really see -- I'll listen to Microsoft if
- 10 there's some issue, but I think if they were told, they can go
- 11 and look and figure out if they want to add something. So I
- 12 don't see a problem with that.
- 13 You can do this, you know, take the time to put it
- 14 together. But I do need it before we do closings and findings,
- 15 because if there's an issue about it I want to rule on it
- 16 beforehand so that, you know, you're not including it or
- 17 relying on it. So if there's some other way of dealing with it
- 18 you are given that opportunity to do so.
- 19 MR. KUNEY: Your Honor, just a final comment. If it
- 20 would help alleviate some of the circumstance that has been
- 21 created, that we have helped create by the designations; if it
- 22 would help resolve that problem by considering that the
- 23 plaintiffs would be willing to withdraw designations from
- 24 anyone who does not appear as a witness, we would be willing to
- 25 do that. That is really consistent with our view that we are

- 1 not, quote, adding witnesses, notwithstanding the prior
- 2 comments.
- THE COURT: Let me see if I understand.
- 4 You would leave the designations in if Microsoft calls
- 5 them as witnesses?
- 6 MR. KUNEY: That seems -- to the extent there's a
- 7 concern about prejudice, that seems to maximize the opportunity
- 8 for them to address any points in the designations, to take
- 9 care of the counter-designations in a reasonable period of time
- 10 knowing that these people are coming to court later, be
- 11 consistent with our aspiration to make the cross-examinations
- 12 hopefully more efficient, and just eliminate a potential
- 13 argument later that they were unduly prejudiced or prejudiced
- in any way by a, quote, late addition of a name.
- 15 THE COURT: All right. Mr. Warden, so what the
- 16 proposal presumably would be is that neither one of you
- 17 would -- well -- or you would make a choice as to whether you
- 18 wanted to use as part of your hundred hours showing some of the
- 19 depositions to the court; otherwise, presumably, you will just
- 20 give them to me and I will be left reading them. So that we
- 21 don't create a time problem.
- MR. KUNEY: Correct. Correct.
- 23 THE COURT: So that presumably is part of the
- 24 proposal.
- 25 And the other part of it is that they would only use

- 1 the designations for witnesses that you would be calling. If
- 2 you don't call them --
- MR. KUNEY: The witnesses that they would call.
- In other words, they would be conditionally tendered,
- 5 and if it turned out that Microsoft decided as its case
- 6 unfolded not to call Mr. X, then Mr. X's designations would not
- 7 be treated as part of the record.
- 8 THE COURT: All right. And then you would be able to
- 9 address -- you would know in advance which ones, what the
- 10 designations were, make decisions about whether you want to
- 11 call them and what you wanted to address as part of that.
- MR. KUNEY: Correct. And the only thing we would need
- 13 with respect to the one or two short videos that we had
- 14 anticipated playing before we rested our case, we would need to
- 15 confirm with Microsoft counsel that those individuals are
- 16 coming to trial to make sure that it was consistent with this
- 17 position that I outlined.
- 18 THE COURT: All right.
- MR. WARDEN: Your Honor, that's fine.
- We are delighted they are withdrawing the designation
- 21 of anyone not being called at trial. That by our count is
- 22 already five people.
- But with respect to those who do appear at trial we
- 24 are entitled to have their cross-examination conducted in open
- 25 court. They may use these deposition transcripts for that

- 1 purpose. It will come out of their time. We don't want half
- 2 of the cross done while the witness is on the stand and the
- 3 other half submitted in writing. That's not proper trial
- 4 procedure.
- 5 THE COURT: I'm not sure precisely what you're getting
- 6 at. For those who -- so are you indicating that they would
- 7 not -- I mean, they are presenting them as what they view as
- 8 admissions. The rules are broader. They talk about statements
- 9 against -- statements of party opponents, and they are not
- 10 admissions in the same way of admissions -- let's put it this
- 11 way -- is broadly defined in the rules as to what it is.
- 12 So are you indicating that -- let's say you call
- 13 witness X. You would have gotten their designation from the
- 14 deposition as to what was involved with it. If it's not
- 15 impeachment -- if it's impeachment, it's another matter. They
- 16 can obviously use it that way. If it's not impeachment, then
- 17 what are you proposing that they can and cannot do with it?
- 18 MR. WARDEN: What I'm proposing is that anything they
- 19 want to bring in through a witness who is called as a live
- 20 witness at trial, they should bring in through their
- 21 cross-examination or by properly following the procedures
- 22 established that we have discussed at length this morning and
- 23 have designated those people on their witness list and call
- 24 them as part of their case and play them in the courtroom.
- 25 This idea that -- there's no exception for party

- 1 opponent deponents in the procedure that the parties agreed to
- 2 and submitted to the court and the court adopted for the
- 3 presentation of depositions.
- 4 It doesn't say there's some alternate thing where they
- 5 can be used under the rules that deal with admissions.
- 6 Depositions of party opponents are dealt with in the
- 7 established procedure.
- Now, they can certainly use those depositions in the
- 9 course of cross-examination, but we strenuously object to some
- 10 kind of bastardized procedure where half of the cross-
- 11 examination is conducted live on the witness stand and the
- 12 other half is putting in a transcript of the witness's
- 13 deposition supposedly as an admission.
- 14 THE COURT: Okay.
- MR. WARDEN: I accept Your Honor's statement that we
- 16 will have notice. Of course, we will.
- 17 THE COURT: All right. Let's see if I understand what
- 18 you're proposing and then I'll hear from the plaintiffs on
- 19 this.
- 20 As I understand it, what you would be proposing is
- 21 that you would indicate to them who -- because they would have
- 22 to know if it's going to be part of their case -- they would
- 23 have to know who you're calling at this point.
- MR. WARDEN: Oh, I'm not sure I quite understood
- 25 Mr. Kuney to say that, but maybe I wasn't listening closely

- 1 enough.
- 2 THE COURT: You indicated that you -- they were
- 3 withdrawing, as I understood it, anybody that you were not
- 4 going to call. Am I correct?
- 5 MR. KUNEY: You're correct, Your Honor. But when I
- 6 made reference to we would conditionally submit them, it was to
- 7 not oblige Mr. Warden to indicate now what his final choices
- 8 are so they would be admitted to the record subject to
- 9 basically being eliminated later if they decide during the
- 10 course of their trial presentation not to call a certain
- 11 person. So they wouldn't be forced to give up any information
- 12 ahead of time.
- 13 THE COURT: So they would be conditionally admitted as
- 14 part of your case.
- I have to say, this is -- well, I'll deal with that
- 16 later. It's going to make it a little difficult to figure --
- 17 in time for their -- you know, for the end portion of your
- 18 first presentation here. I'm not going to be reading these
- 19 until later because I don't want to read them -- leaving out
- 20 the time issue -- I don't want to read something that's not
- 21 going to be part of the record. I would prefer not to do that
- 22 as the trier of fact.
- 23 So you would conditionally admit them into the record
- 24 now. You would then, once they called them, do what?
- 25 MR. KUNEY: That would eliminate the condition.

- 1 THE COURT: Okay. So at that point -- so nothing
- 2 would be played in court.
- 3 MR. KUNEY: With the possible exception of this
- 4 half-hour or hour that we might like to do before we rest.
- 5 THE COURT: Okay. And so you would play the half-hour
- 6 or an hour conditionally because you don't know --
- 7 MR. KUNEY: I had suggested it with respect to those
- 8 people, we might be able to consult and see if we could
- 9 determine whether they are prepared to tell us, which they may
- 10 or may not be, that those individuals will in fact attend.
- 11 THE COURT: And then presumably if they called a
- 12 witness during their case, then it would no longer be
- 13 conditionally admitted in the record, it would be admitted.
- 14 that correct?
- 15 MR. KUNEY: That's the suggestion.
- 16 THE COURT: What is -- Mr. Warden, what is your
- 17 proposal -- or what is your response to this?
- 18 MR. WARDEN: My response to that is to adopt
- 19 everything I've said heretofore this morning, and to say that
- 20 this -- this procedure doesn't make any sense.
- 21 If we are calling a witness, anything they want to
- 22 elicit from that witness, including admissions, should come
- 23 while that witness is on the witness stand. If they have
- 24 admissions from the person, they can be used in
- 25 cross-examination.

- 1 We're not talking here about the designation of, you
- 2 know, 50 specific questions and answers from the totality of
- 3 the depositions that were taken that are then proffered,
- 4 despite the procedures set forth in the order and submission,
- 5 as admissions. We're talking about 18, now 13, because they've
- 6 cut out five aren't on our trial witness list, witnesses.
- 7 THE COURT: Let me just ask a question.
- 8 Let us assume -- obviously, these are all depositions,
- 9 so they are under oath so they can be used both in the context
- 10 of impeachment as well as substantive evidence.
- So, if they call them on the stand, you would be in a
- 12 position to ask them about issues that came up in their
- 13 deposition. This is the question I had for Mr. Warden for a
- 14 minute.
- If they agree, then you have it. If they don't, it
- 16 can be admitted and the court can still consider it both for
- 17 impeachment as well as substantive evidence. So, in essence,
- 18 it comes in as substantive evidence.
- Now, the only caveat to this is, let us assume that
- 20 you in your direct don't touch these issues so there's no
- 21 reason for them on cross to basically bring it up. Ordinarily,
- 22 you would -- you know, you would stay away from areas that are
- 23 not -- if they are clear, I don't know that that's going to
- 24 happen, but I want to raise it anyway.
- Let's assume, would you be willing under those

- 1 circumstances to allow them to ask the question and to bring it
- 2 out in that way?
- MR. WARDEN: Your Honor --
- 4 THE COURT: Knowing in advance what these are going to
- 5 be, so it's not as if you're going to be surprised.
- 6 MR. WARDEN: We, of course, don't know whether this
- 7 whether or, if so, to what extent this issue will ever arise.
- 8 But they conducted these depositions and we didn't
- 9 conduct cross-examination of these witnesses at the depositions
- 10 on whatever subjects they may have examined the witnesses on.
- 11 These were discovery depositions.
- So you get into this sort circular thing. If it isn't
- in our direct and they want to bring it up in the fashion Your
- 14 Honor just suggested as a possibility, then we would have to go
- 15 back into that subject as well, without having done so at the
- 16 deposition.
- But it does seem to me that whatever they do they
- 18 should by when the witness is on the stand and if they have
- 19 limited amounts of material that fall into the category that
- 20 Your Honor is talking about -- and I mean genuinely limited --
- 21 so that what they are doing is not, in effect, calling the
- 22 witness as their own witness, because it's on some totally
- 23 different subject and it goes on and on, perhaps practicality
- 24 and good sense suggest Your Honor could accommodate that.
- But, you know, in my mind, that's a very, very limited

- 1 situation and not something that's equivalent to their adding
- 2 the individual as their witness.
- THE COURT: All right. Anything you want to say,
- 4 Mr. Kuney?
- 5 MR. KUNEY: Yes, just two or three quick points.
- 6 Your Honor, I do believe we ought to be entitled to
- 7 have the information introduced as substantive evidence and not
- 8 just as impeachment.
- 9 I do think there will be disputes later about whether
- 10 we have gone beyond the scope of the written direct testimony,
- and one of the virtues, it seems to me, of having the material
- 12 even conditionally admitted now is that know it's there. If
- 13 they need to respond to it, they can do it in the context of
- 14 the direct testimony instead of getting into a lot of argument
- 15 later about the need for, you know, redirect, recross, et
- 16 cetera, et cetera, et cetera.
- So it seems to me that we will get to where we are
- 18 trying to get more expeditiously and fairly if we allow us to
- 19 make substantive use of the evidence, which I think we are
- 20 entitled to do, and put it in the record conditionally now and
- 21 then it's in and they know it, and if they need to respond,
- 22 they can respond.
- MR. WARDEN: Well, Mr. Kuney is back where he started
- 24 with 13 additional witnesses by deposition. He got rid, I
- 25 believe, of the five who aren't on our trial witness list.

- 1 And I repeat, Your Honor, that the designation of
- 2 these people as witnesses by them could have affected our
- 3 cross-examinations of their witnesses over three weeks.
- 4 Nothing can now be done about that.
- 5 And it seems to me that the proper procedure is for
- 6 them to cross-examine these witnesses and then if they have
- 7 specific material that is beyond the scope of the direct, and
- 8 we object to it, Your Honor can consider whether it should be
- 9 admitted under other rules of evidence and our then given an
- 10 opportunity to conduct redirect on it when, as, and if it is
- 11 not equivalent to calling these people as witnesses, which is
- what he's back to now, because the extent of the designations
- 13 makes every one of these people a witness.
- 14 THE COURT: Let's deal with Mr. Greene.
- 15 MR. WARDEN: Okay. I wanted to correct the record in
- 16 one respect there.
- 17 THE COURT: Okay.
- 18 MR. WARDEN: The letter of April 5th that Mr. Kuney
- 19 referred to I believe is our letter designating the portions of
- 20 Mr. Greene's testimony. Is that right?
- MR. KUNEY: That's correct.
- MR. WARDEN: We sent an earlier letter, 14 days ago
- 23 today, designating Mr. Greene as an addition to our witness
- 24 list.
- THE COURT: Do you have the letter or something so I

- 1 can be a little more specific about what the date is? It would
- 2 help.
- MR. WARDEN: I'm told by Mr. Smith it was literally 14
- 4 days ago today, but we don't seem to have this letter in the
- 5 courtroom. I'm sorry.
- 6 THE COURT: If you can get it.
- 7 MR. KUNEY: I have the designation letter, but I don't
- 8 have the other one.
- 9 MR. WARDEN: But we did take the step of formally
- 10 notifying them of his addition to the witness list
- 11 approximately three weeks prior to the beginning of our case
- 12 and then supplying them later with the designations, and we
- 13 received no objection to the addition of him to the witness
- 14 list, which was not surprising.
- 15 THE COURT: I'm assuming that it's the -- you're
- 16 talking about a straight count of 14 days; right?
- 17 MR. WARDEN: That's exactly what Mr. Smith advises me.
- THE COURT: And the deposition of Mr. Greene that's
- 19 being -- is it deposition or is he just being shown as a
- 20 videotape witness, period?
- MR. WARDEN: Video.
- 22 THE COURT: So it's his full deposition?
- MR. WARDEN: Well, we designated and they counter-
- 24 designated so there will be some omissions from the deposition.
- 25 THE COURT: I'm just trying to figure out. This is

- 1 so it's basically a deposition witness?
- MR. WARDEN: That's correct, Your Honor.
- THE COURT: All right. Anything else. I need to give
- 4 some thought to this and we need to give a break.
- 5 MR. KUNEY: Just one last comment that maybe I haven't
- 6 said already.
- 7 Our failure to object to Mr. Greene is only further
- 8 conduct consistent with our misapprehension about what
- 9 deadlines were applicable and what deadlines were not.
- We did not view him as untimely in that sense, again
- 11 we did not understand that there had been this deadline in
- 12 effect.
- 13 THE COURT: All right. Let me take 20 minutes and
- 14 give some thought to this, and if I can come back and figure
- 15 out what I'm going to do, I'll let you know at that point and
- then we will begin at least the witness.
- 17 (Recess from 10:27 a.m. until 10:54 a.m.)
- 18 MR. WARDEN: Your Honor, I have the letter at this
- 19 point.
- THE COURT: If we could just hand that up.
- 21 MR. WARDEN: And I also have our estimate of the 24
- 22 hours. The withdrawal of the five witnesses who aren't on our
- 23 witness list will cut that by three and a half hours, roughly.
- I call Your Honor's attention to the fact that in our
- 25 letter we said that we were at the procedures in place as

- 1 requiring the designation of witnesses by deposition by March
- 4th, and that was on March 27th that we sent that to the
- 3 plaintiffs.
- 4 THE COURT: All right. I think the way I'm going to
- 5 handle it -- I will do a written order -- but in terms of sort
- of leaping to the bottom line here.
- 7 In balancing the equities, I think the way I'm going
- 8 to handle it is I'm not going to do a conditional admission of
- 9 the material. I think that that doesn't make sense as a way ϕf
- 10 dealing with this.
- I will work with what the plaintiffs have offered in
- 12 terms of using only the designations for witnesses that
- 13 Microsoft actually calls.
- 14 If they call them, you can obviously use this on
- 15 cross-examination, either to impeach or if it comes in,
- 16 obviously it's for substantive evidence as well as for
- 17 impeachment, and you can use the videotapes. I don't have any
- 18 problem. You can use whatever you want. If you want to use it
- 19 with transcripts or you want to use the videotape to use it,
- 20 however. There's certainly no limitation on that.
- 21 If we do have an instance where there's an argument
- 22 that it's going beyond direct or that you're making the witness
- 23 your own witness and there's an objection, then what I'll do is
- 24 have you -- for whatever piece of testimony that you have
- 25 designated already, if you would indicate whatever it is that

- 1 you have not been able to get through into the record at this
- 2 point with the counter-designation and then I'll a make a
- 3 decision in context.
- 5 will be -- you will have narrowed it down, and hopefully it
- 6 won't happen. It may be that we won't have an issue come up
- 7 about it, or if we do, it will be certainly a more limited one,
- 8 and I can make a decision in the context of the examination of
- 9 the witness themselves and how it's coming out or not coming
- 10 out, and the need and prejudice of admitting it if it's totally
- 11 apart from whatever this witness has testified to.
- So I think that way you can use this information, and
- if for some reason it doesn't come in, then I'll make a
- 14 decision about whether it can or cannot come in in context.
- In terms of Mr. Greene. I would just simply say that
- 16 he was deposed, evidently either the 12th or the 13th, and as I
- 17 understand it, he was put on -- with the letter, he was put on
- 18 the witness list on March 27th.
- So the Microsoft did it correctly in the sense that
- 20 they noted that it was supposed so have been done by the 4th,
- 21 but obviously the deposition was after that. They put him on
- 22 the witness list and then they indicated they would be doing
- 23 the designations at a later date which is what they've done.
- I would point out that we're talking about the
- 25 notification to the plaintiffs within roughly 14 or 15 days

- 1 after the deposition and about a week and a half into the
- 2 plaintiffs' case out of a four-week trial.
- 3 So I think under those circumstances, there was no
- 4 objection on March -- after March 27th to adding him to the
- 5 list, and I didn't hear any prejudice that was presented by the
- 6 plaintiff this morning for the court to consider in terms of
- 7 using it. So I'll allow them to go forward with that.
- All right. Let's move to the next witness. And that
- 9 witness is -- let's see, we are still with?
- 10 MR. HOLLEY: Professor Appel, Your Honor.
- 11 THE COURT: So if we can get Professor Appel up here.
- MR. HOLLEY: Your Honor, there's one housekeeping
- 13 matter from yesterday.
- I sought to admit the transcript of Jonathan
- 15 Schwartz's comments to a meeting of analysts on February 7th
- 16 and Ms. Fulton objected on the basis that the transcript was
- 17 not certified by the court reporter.
- I now have a version of that transcript, Defendant's
- 19 Exhibit 1427, that has been certified by the court reporter,
- 20 and in light of that I would move for the admission of
- 21 Defendant's Exhibit 1427.
- 22 THE COURT: Okay. She's not here, so I don't know --
- 23 is somebody prepared to --
- MR. HODGES: We have no objection.
- THE COURT: I'm sorry?

- 1 MR. HODGES: No objection.
- THE COURT: Then I will go ahead and admit 1427.
- 3 (Defendant's Exhibit No. 1427 was received into evidence.)
- 4 MR. HOLLEY: Your Honor, just for the sake of the
- 5 record, could I give Ms. Patterson the copy of the exhibit that
- 6 now has the certification attached to it?
- 7 THE COURT: Yes. Please.
- 8 ANDREW W. APPEL, Plaintiff's witness, RESUMES
- 9 CROSS-EXAMINATION (Cont'd.)
- 10 BY MR. HOLLEY:
- 11 Q. Good morning, Professor Appel.
- 12 A. Good morning.
- 13 Q. You testified yesterday that one of the parts of what you
- 14 would think of as the kernel of Windows XP is the TCP/IP stack;
- 15 is that correct?
- 16 A. I believe there is support for TCP/IP networking in the
- 17 kernel.
- 18 THE COURT: Can we slow down? I know you are all
- 19 familiar with the acronym, but we need to make sure. They are
- 20 very close in some instances. To do them slowly so we make
- 21 sure on the record we have the right ones designated. If you
- 22 could repeat it then.
- THE WITNESS: All right.
- 24 A. Yes, I believe there is support for the TCP/IP protocol in
- 25 the kernel of Windows XP.

- 1 Q. Does TCP/IP stand for transmission control protocol slash
- 2 Internet protocol?
- 3 A. Yes.
- 4 Q. If you look, sir, at Defendant's Exhibit 1447. Is that
- 5 still up there with you? It's the list of files.
- 6 A. Yes.
- 7 Q. Can you tell me where in the Windows directory and in the
- 8 system 32 subdirectory the portions of TCP/IP support that are
- 9 in the kernel appear?
- 10 A. No. I don't remember which file they would be in.
- 11 Q. Well, if you look about nine-tenths of the way through the
- 12 document, at a page where the first file is listed, WOWFAX dot
- 13 DLL, and tell me when you're there, sir. I think it's about 10
- 14 pages from the end.
- 15 A. Yes.
- 16 Q. The third file down there is called WS2 underline 32 dot
- 17 DLL, and the description of that file is Windows socket 2.0, 32
- 18 bit DLL.
- Do you know, Professor Appel, whether that is the
- 20 portion of the TCP/IP stack in Windows XP that runs in kernel
- 21 mode?
- 22 A. No, I don't.
- 23 Q. What is your understanding, Dr. Appel, of what is contained
- 24 in the Windows directory of Windows XP Professional?
- 25 A. I guess the Windows directory has subdirectories, not all

- of whose names I remember. The Windows slash system 32
- 2 directory has executable files for the core of the operating
- 3 system and various other components.
- 4 Q. Now, do you also have with you there, sir, Defendant's
- 5 Exhibit 1446, which is the Mac OS 10 overview for developers
- 6 that we were looking at just before we finished yesterday
- 7 evening?
- 8 A. Yes.
- 9 Q. And directing your attention again, sir, to the page
- 10 numbered 8, which is headed at the top interoperability. Do
- 11 you see that, sir?
- 12 A. Yes.
- 13 Q. Now, if, under section 1 of the nonsettling states'
- 14 proposed remedy, an OEM or a third-party licensee exercised its
- 15 right to remove Internet Explorer from the operating system,
- 16 which of the protocols listed here, starting with TCP/IP and
- 17 PPP would be removed from Windows XP?
- 18 A. I would say the HTTP protocol.
- 19 Q. Is that the only one, sir?
- 20 A. I believe that's the only one.
- 21 Q. And if an OEM or a third-party licensee did elect to remove
- 22 the support for that protocol from Windows XP, the operating
- 23 system would be at a competitive disadvantage vis-a-vis Mack \emptyset S
- 24 10 because it would have less protocol support for industry
- 25 standard protocols than one of its leading competitors?

- 1 A. I would imagine that many OEMs, if they were to choose to
- 2 remove the support for this protocol, would provide perhaps a
- 3 non-Microsoft implementation of the support for that protocol.
- 4 Q. Is there anything in section 1 of the nonsettling states'
- 5 proposed remedy that requires an OEM or a third-party licensee
- 6 to replace anything that they remove from the operating system
- 7 with a substitute?
- 8 A. No. There's no such requirement. Presumably OEMs will do
- 9 what they think will sell computers.
- 10 Q. And if the OEM or the third-party licensee elects not to
- 11 replace the components of the operating system that it elects
- 12 to remove, then Windows will be less functional and therefore
- 13 less competitive with products like Mac OS 10; correct?
- 14 A. Windows as it's shipped by that OEM.
- 15 Q. Is that a yes, sir?
- 16 A. Yes. But I don't know that, as a computer science expert I
- 17 can use the worth competitive maybe in the same sense that
- 18 you're using it.
- 19 Q. But you have no doubt that if an OEM or a third-party
- 20 licensee elects to remove functionality from Windows XP and not
- 21 replace it with anything, the operating system has thereby
- 22 become less attractive to developers?
- 23 A. No, I don't think that's necessarily the case.
- 24 Some developers may wish to use a different
- 25 implementation of the HTTP protocol because a different

- 1 implementation has the characteristics they want.
- Q. Right. And in that case, if they don't know that it's in
- 3 the operating system, it's up to them to distribute it to all
- 4 of their potential customers; correct?
- 5 A. Yes. I think that would be easy for them to do.
- 6 Q. Have you talked to any ISV's about their views of the need
- 7 to ship things like HTML rendering engines or protocol support
- 8 for HTTP in their products?
- 9 A. No, I have not.
- 10 Q. Did you read the testimony of the gentleman from Rational
- 11 Software who testified during the liability phase of this trial
- 12 about his views of having to ship those sorts of components
- 13 with his products?
- 14 A. No, I didn't.
- 15 Q. Now, you also believe, do you not, Professor Appel, that
- 16 another option that Microsoft would have technically for
- 17 complying with section 1 would simply be to hide access to APIs
- 18 exposed by optionally removable components of the operating
- 19 system so that although those components remained in Windows,
- they could not be called upon by third-party applications?
- 21 A. If there's an optionally-removable Microsoft middleware
- 22 product and another part of the operating system relies upon
- 23 some fragment of that product that may be shared between the
- 24 different products, then one technical option available to
- 25 Microsoft is to include that fragment internally to other parts

- 1 of the operating system in such a way that it's not middleware.
- 2 Q. Well, I think I asked you a slightly different question,
- 3 sir.
- 4 Is it your view that one way that Microsoft could
- 5 comply with section 1 is to say that when something is removed
- from the operating system the code stays but the APIs exposed
- 7 to developers are obscured?
- 8 A. You said in your question "component."
- Now, a component may be a very tiny thing, may be a
- 10 very large thing.
- 11 Microsoft is required to make fairly large things,
- 12 such as Microsoft middleware products, removable and if there's
- 13 some component of one of those products necessary for the
- 14 operation of another product because perhaps it's shared, then
- 15 one of the options Microsoft has is to make that component, as
- 16 you put it, that fragment of the Microsoft middleware product
- 17 inside another Microsoft middleware product or operating
- 18 system.
- 19 Q. Let's take the Microsoft middleware product called Internet
- 20 Explorer under the states definition X1.
- 21 A. Yes.
- 22 Q. You believe that one way that Microsoft could comply with
- 23 section 1 is to leave all of the two dozen or so components of
- 24 Windows that you believe are associated with Internet Explorer
- 25 in the operating system and simply hide from developers the

- 1 APIs exposed by those components; correct?
- 2 A. I don't think I said it -- it would be appropriate to leave
- 3 all the components of Internet Explorer in.
- I said, if there's some material fragment of that,
- 5 some particular subcomponent that's shared, then one of the
- 6 ways Microsoft could comply is to handle that share in a
- 7 different way.
- 8 Q. Well, the biggest component of Internet Explorer is a file
- 9 called MSHTML.DLL, the HTML rendering engine; correct?
- 10 A. I'm not sure. That may be the biggest individual component
- 11 it handles, the display of letter and so on in different fonts
- 12 and paragraphs on the screen. It's one of the several
- 13 functions of the browser.
- 14 Q. And you believe, sir, that if a licensee or an OEM under
- 15 section 1 of the nonsettling states' proposed remedy elected to
- 16 remove MSHTML.DLL it would be sufficient for Microsoft to hide
- 17 from developers the APIs exposed by that component but leave
- 18 MSHTML.DLL in the operating system for other parts of the
- 19 operating system to utilize.
- 20 A. As long as the APIs of that library are not accessible to
- 21 developers either of Microsoft middleware or third-party
- 22 developers, then it would be a purely internal API and it would
- 23 not constitute a middleware platform in itself. So, yes.
- 24 Q. So the answer to my question is, yes, you believe that
- 25 under section 1 it would be sufficient for Microsoft to permit

- 1 licensees to hide from developers the APIs exposed by Microsoft
- 2 middleware products but leave those Microsoft middleware
- 3 products in the operating system?
- 4 A. No. That's exactly what I didn't say.
- I said if there are components of those products that
- 6 are shared and therefore necessary for use by other products,
- 7 you might do that to some components.
- 8 Q. Okay.
- 9 A. I don't know that it would be appropriate to take entire
- 10 Microsoft middleware products and do that.
- 11 Q. Well, if you don't know whether it would be appropriate,
- 12 how is Microsoft supposed to figure out under section 1 what is
- 13 appropriate?
- 14 A. Because the context in a lot of this discussion is the case
- 15 where there's some subcomponent of Microsoft middleware product
- 16 that's shared among several Microsoft middleware products and
- 17 the core operating system.
- 18 And the example that keeps coming up is MSHTML.DLL.
- 19 And this case of shared subcomponents has been much discussed
- 20 by the Microsoft expert witnesses in their report and much
- 21 discussed in depositions. And so in the case where I answered
- 22 you about keeping a copy of the code and hiding the API, it was
- 23 with respect to a particular component, a fragment of a
- 24 Microsoft middleware product.
- 25 Q. Well, look at your deposition, sir, in the second volume,

- 1 at page 268, line 19, and tell me when you're there.
- 2 Do you recall being asked the following question?
- 3 "But in your second scenario, although hidden from both end
- 4 users and ISVs, the code for the Microsoft middleware would
- 5 remain in the operating system and be relied on by other parts
- of the operating system, correct?
- 7 "Answer: That's right."
- 8 Were you asked that question and did you give that
- 9 answer, Professor Appel?
- 10 A. Yes. This answer is about Microsoft middleware, not
- 11 Microsoft middleware product.
- 12 MSHTML is a components of Microsoft middleware. It
- does not constitute an entire Microsoft middleware product.
- 14 Q. Okay. Of the two dozen components that comprise Internet
- 15 Explorer that you testified about yesterday afternoon, how many
- 16 of them fall within this category of Microsoft middleware that
- 17 could remain in the operating system under section 1 and be
- 18 hidden from both end users and ISVs?
- 19 A. It depends on how those fragments of the middleware provide
- 20 individual functionalities that are relied upon by other
- 21 Microsoft middleware products.
- 22 Q. Well --
- 23 A. By the operating system.
- 24 Q. Let's take them one at a time.
- You said there are 24 of them. And can you tell the

- 1 court which of them fall within the category of your second
- 2 scenario, which is things that can stay in the operating system
- 3 under section 1 but be hidden from both end users and ISVs?
- 4 A. No. As I explained yesterday, I didn't study each one of
- 5 those components to sufficient depth to be able to tell you now
- 6 what each one does, and I certainly didn't analyze the inter-
- 7 dependencies between every Microsoft middleware product and
- 8 every other Microsoft middleware product. So, I can't do that
- 9 right now for you.
- 10 Q. Can you do it as to any of the two dozen components that
- 11 you say comprise Internet Explorer?
- 12 A. Yes. I think that, for example, the support for the HTTP
- 13 protocol is a functionality that may be used, and maybe even
- 14 shared, by several different parts of the operating system, and
- 15 so very likely support for the HTTP protocol in whichever DLL
- 16 it happens to reside would be appropriate for this treatment.
- 17 Q. And if that DLL is called WININET.DLL does Microsoft get to
- 18 keep all of WININET.DLL or does Microsoft in six months have to
- 19 rewrite that dynamically-linked library to somehow isolate the
- 20 support for the HTTP protocol under your view of section 1?
- 21 A. I believe that WININET contains commingled, if you will,
- 22 support for a few different Internet protocols, such as HTTP
- and FTP.
- And I think that, in general, we can draw a line
- 25 around the Microsoft Internet Explorer product that falls

- 1 neatly on DLL boundaries, but in a few cases there is browser-
- 2 related code commingled with code that is either not browser
- 3 related or not solely browser related, and WININET may be one
- 4 of the files where there's commingled code.
- 5 So in that case, Microsoft could comply with the
- 6 remedy, I believe, although I haven't given it a great deal of
- 7 thought, by making WININET removable.
- 8 And I think Microsoft could comply with the remedy by
- 9 providing a DLL that has the nonbrowser-related
- 10 functionalities, but not the HTTP browser-related API.
- 11 Q. Well, you're surely not testifying to this court that
- 12 support for the file transfer protocol is not properly a part
- of Web browsing software, are you, sir?
- 14 A. The file transfer protocol is very commonly used in Web
- 15 browsing. However, the file transfer protocol has been in use
- 16 since at least 1980. I have used it since about 1980. And as
- 17 such, it's a protocol that is sure not exclusive to Web
- 18 browsing because Web browsing was only invented after 1990.
- 19 So, I would not say that Microsoft under the states' remedy
- 20 would have to remove support for FTP.
- 21 Q. And so your testimony that the code is commingled is that
- 22 although FTP is a very common protocol used in Web browsing, it
- 23 existed before Tim Burnesley (ph) invented Web browsers and
- 24 therefore Microsoft would have to rewrite WININET to isolate
- 25 FTP. Is that what you're saying, sir?

- 1 A. One of the technical options Microsoft has is to split that
- 2 DLL. I don't think this would be a rewrite. It might be done
- 3 without touching any source code at all conceivably, but -- and
- 4 it's certainly within Microsoft's discretion to remove all of
- 5 WININET.
- I believe, although I'm not sure of the history, that
- 7 Microsoft built the WININET.DLL in the mid-'90s to support Web
- 8 browsing.
- 9 And I'm not sure that Microsoft provided support for
- 10 FTP before they tried to support Web browsing, but I won't hold
- 11 that against Microsoft. I don't recall FTP as a browsing-
- 12 specific protocol. And I don't think that the states' remedy
- 13 would require it to be made removable.
- 14 Q. Is XML a browsing-specific protocol?
- 15 A. I think not.
- 16 Q. Have you looked at WININET to make any assessment of how
- 17 much engineering effort would be required to design, develop,
- 18 and test a version of that DLL that isolated support for the
- 19 hypertext transfer protocol from the file transfer protocol?
- 20 A. I have not read the source code of the WININET.DLL, but
- 21 based on my experience developing software, including
- 22 developing software that interoperated via networks and those
- 23 protocols, I think it would not be difficult.
- 24 Q. When you used the word "commingled" in your prior answers,
- 25 your understanding is that something is commingled if it is

- 1 used for any purpose other than Web browsing; is that correct?
- 2 Even if it is used for Web browsing, if it is used for any
- 3 other purpose, it is commingled if it appears in the same files
- 4 as HTTP support.
- 5 A. Let me explain what I meant by the word commingled in that
- 6 context.
- 7 Q. First of all, sir, I think you could explain after, but can
- 8 you answer my question?
- 9 A. Okay. Can you repeat the question, please?
- 10 O. Sure.
- When you say commingled, do you mean that if software
- 12 code appears in a file and provides a functionality that is not
- 13 exclusively used in Web browsing -- for example, FTP -- it is
- 14 commingled?
- 15 A. I don't know that the term commingled is specifically
- 16 related to Web browsing, so I'm still not sure I understand the
- 17 question.
- 18 Q. Well, are you using the word commingled the way the Court
- 19 of Appeals for the District of Columbia Circuit used it in its
- 20 opinion or are you using it in some other way, sir?
- 21 A. I believe that the Court of Appeals used commingled in its
- 22 opinion specifically in reference, I think, to a different DLL
- 23 in which there were clearly marked browser-related functions
- 24 and nonbrowser-related functions.
- 25 And I'm not completely sure that in WININET there are

- 1 functions related to, you know, specifically nonbrowser use.
- 2 So I can't be quite sure at this point that I used the word
- 3 commingled exactly as, and exactly in the same context that the
- 4 Court of Appeals used it.
- 5 Q. And then back to my question. In your use of the word
- 6 commingled, is it sufficient to say that code provides
- 7 functionality that is sometimes not used in Web browsing to say
- 8 that it's commingled?
- 9 A. In my use of the word commingled in that context, what I
- 10 was referring to is the fact that in this case the same DLL
- 11 contains code that would need to be made removable under the
- 12 remedy and code that would not need to be made removable.
- I believe that this kind of case is the exception
- 14 rather than the rule, but it does occur in this case.
- 15 Q. And the reason that you think that the FTP support in
- 16 Windows would not have to be removable under section 1 is that
- 17 it is sometimes used for a purpose other than Web browsing; is
- 18 that correct?
- 19 A. No. It's because the HTTP protocol was invented for the
- 20 purpose of Web browsing. It's clearly identified as a browsing
- 21 functionality.
- The FTP protocol predates Web browsing and certainly
- 23 was not invented for that purpose.
- 24 Q. So the test is not whether it's sometimes used for
- 25 something other than Web browsing, but whether it was invented

- 1 before Web browsers. Is that the test?
- 2 A. That's the test I'm using in this particular case. I was
- 3 trying to use the appropriate test and this seems to be a
- 4 reasonable test.
- 5 O. Is the test context sensitive?
- In every instance that I look at a file in Windows XP,
- 7 am I going to be applying a different test to determine whether
- 8 something is removable under section 1?
- 9 A. What is necessary for the purpose of section 1 is to draw
- 10 the boundaries of the Microsoft middleware products, and I
- 11 believe that this will be possible to do in a reasonable way.
- 12 And I have given examples of the procedure and criteria one
- 13 could use to draw these boundaries.
- And in the particular case of the Web browser which,
- 15 although I'm not sure, I think is a more complicated case than
- 16 most Microsoft middleware products, it has a longer history
- 17 than many of the Microsoft middleware products. There is maybe
- 18 more sharing of subcomponents. All right?
- So even in this more complicated case, I still
- 20 believe that the criteria I explained yesterday are one
- 21 reasonable way to draw the boundary.
- 22 Q. I'm trying to understand what test in the case of the
- 23 Microsoft middleware product that the nonsettling states
- 24 referred to as Internet Explorer were going to apply to
- 25 determine whether or not something is optionally removable

- 1 under section 1. Can we know focus on that question?
- 2 A. Sure.
- 3 Q. And in that instance, are we always looking to see whether
- 4 that particular technology existed before Tim Bernesley and his
- 5 colleagues at Sern (ph) in Switzerland invented the first Web
- 6 browser. Is that our test?
- 7 A. No. Surely that is not the only test.
- 8 Q. What test are we going to apply in the instances where
- 9 history is not the test?
- 10 A. Well, I think the...
- 11 So one way to do it would be to identify
- 12 functionalities that are clearly, you know, Web browser
- 13 functionalities.
- 14 And as I've explained, another way to do it -- I don't
- 15 think we need to rely on just one method. I think that various
- 16 criteria can be used together to draw an appropriate boundary
- 17 line between the Microsoft middleware products.
- 18 And as I explained yesterday, another way that largely
- 19 correlates with the first way is to see how Microsoft itself
- 20 has categorized these subcomponents.
- 21 Q. Well, FTP support is part of what Microsoft in Windows XP
- 22 Embedded refers to as Internet Explorer, isn't it?
- 23 A. I believe that FTP support is in the category called
- 24 WININET and that category may contain just the one DLL,
- 25 WININET.

- 1 And as I explained yesterday, there are approximately
- 2 four categories that together draw an approximately appropriate
- 3 boundary and one of them is Internet Explorer, one of them is
- 4 HTML rendering, and one of them is WININET which contains the
- 5 communications protocol support for the browser.
- 6 Q. Have you --
- 7 A. So it's not in Internet Explorer.
- 8 Q. Have you studied the relationship of the component
- 9 definition files in Windows XP Embedded for those different
- 10 components that you just described to see to what extent they
- 11 are subsets or supersets of one another?
- 12 A. Yes. It is my belief that after one -- what I've done is I
- 13 have built a configuration with Internet Explorer in it;
- 14 therefore, it must contain all the components that are part of
- 15 the browser and other components that are not part of the
- 16 browser but upon which the browser relies, like the core
- 17 operating system.
- 18 And then in that configuration I examined the
- 19 different categories of files that the Windows XP Embedded
- 20 Target Designer says are in my configuration.
- I believe that in that view of my configuration these
- 22 different categories don't overlap so that I've been able to
- 23 identify the component files in that way.
- 24 Q. You are aware that Windows XP Embedded has a SQL database
- of component definition files, are you not?

- 1 A. Yes.
- 2 Q. And have you looked at the different component definitions
- 3 in that SQL database to determine the extent to which the
- 4 component called Internet Explorer contains the functionality
- 5 of WININET?
- 6 A. No, I haven't.
- Microsoft in its XP Target Designer tool provides a
- 8 user interface for that database that is meant to be convenient
- 9 for OEMs who are configuring embedded operating systems, and I
- 10 did find it relatively convenient as a way to access the data
- in the database. So I didn't feel the need at this point to go
- 12 underneath the hood and look directly in the SQL database.
- 13 Q. Now, when you say that one test for determining what is
- 14 encompassed by section 1 is something that is clearly Web
- 15 browser functionality, I take it that you think that FTP
- 16 support fails that test?
- 17 A. I think that's clearly Web browser and nonWeb browser
- 18 functionality.
- 19 Q. And so if it is in the category of things that are both
- 20 clearly Web browser functionality, but also clearly some other
- 21 sort of functionality, then it doesn't have to be removable,
- 22 but if it's clearly Web browser functionality and not any other
- 23 kind of functionality, then in your view it must be removable
- 24 under section 1?
- 25 A. In the case of HTTP, the hypertext transfer protocol, this

- 1 is a protocol that was invented specifically for the purpose of
- 2 Web browsing and is used largely for the purpose of Web
- 3 browsing. It's found in every Web browser. And so I thought
- 4 it would be appropriate to say that this is part of the Web
- 5 browser product. This is core Web browsing functionality.
- 6 Q. I'm trying to understand, Professor Appel, how my client is
- 7 going to interpret section 1 based on your views.
- Now, if something is both clearly Web browser
- 9 functionality in your mind but also performs other
- 10 functionality, I take it that your view, based on what you've
- 11 said about FTP, is that it can stay in the operating system;
- 12 correct?
- 13 A. I think that if Microsoft in its arrangement of
- 14 functionalities into subcomponents has mixed functionalities
- 15 that are clearly part of the Microsoft middleware product with
- 16 other functionalities, then Microsoft cannot leave that entire
- 17 component in if the OEM specifies that Microsoft middleware
- 18 product is to be removed.
- 19 But if Microsoft discovers that this subcomponent has
- 20 capabilities, exposing APIs that are clearly not related to Web
- 21 browsing, then I guess in its discretion it could choose to
- 22 split the file. As I said, I think this would be the
- 23 exception.
- 24 Q. Let's hang with FTP, please.
- 25 A. All right.

- 1 Q. FTP is our example. You've told me already that FTP is
- 2 clearly Web browser functionality because every Web browser in
- 3 the world has FTP support; right?
- 4 A. Yes, every Web browser has FTP support.
- 5 Q. But FTP was invented before the folks at Sern invented the
- 6 first Web browser. It's used for all sorts of file transfer
- 7 functions in operating systems unrelated to Web browsing, and
- 8 therefore the fact that it is clearly Web browser functionality
- 9 does not, in your view, include it within section 1. Am I
- 10 understanding you?
- 11 A. Yes. I guess something like that would be the case.
- 12 Q. Now, what about the file called SHDOC -- D-O-C, V2 or shell
- 13 document view dot DLL in Windows XP?
- One of the things that it does is implement an in-
- 15 place navigation system where there's a Back button, a Forward
- 16 button, history of where the user has been and a list of
- 17 favorites.
- 18 That wasn't invented for the first time in Switzerland
- in 1991, was it, that notion of in-place navigation?
- 20 A. I don't know what you mean by in-place navigation.
- 21 Q. In-place navigation where in a single frame on the screen
- 22 the user can go where they just were, where they have been over
- 23 the last 10 views of the Window.
- 24 You're familiar with in-place navigation in Web?
- 25 A. If that's what you mean by in-place navigation.

- 1 Q. If we understand that terminology.
- 2 That concept of navigation, with Back and Forward
- 3 buttons, a list of favorites, and a history of where the user
- 4 has been was not invented by anyone at Sern in 1991, was it?
- 5 A. I guess not.
- 6 Q. So to the extent that SHDOC view dot DLL implements ideas
- 7 that existed long before Web browsing software was invented, is
- 8 that DLL something that is removable under section 1 by an OEM
- 9 or a third-party licensee?
- 10 A. I have not recently studied in detail that DLL. But my
- 11 recollection is that in this case, in this court case, that DIL
- 12 has been a focus of attention as one in which there are
- 13 different unrelated functionalities commingled.
- So I think that by focusing on this particular DLL
- 15 you're painting an unrepresentative picture of the general task
- 16 of separating browser functionality from nonbrowser
- 17 functionality or of drawing boundaries between Microsoft
- 18 middleware products.
- This is a particular file that Microsoft chose several
- 20 years ago to mix different functionalities, for reasons about
- 21 which I can only speculate, and to imply that the decisions to
- 22 be made in this case are representative in their difficulty of
- 23 all of the other boundaries that have to be drawn I think is
- 24 misrepresenting.
- 25 Q. Dr. Appel, I'm not painting pictures, sir. I'm asking

- 1 questions and I would ask that you answer them, please.
- 2 Can you tell me whether the file SHDOCVW.DLL is one
- 3 that can stay in the operating system or one that has to be
- 4 removable optionally under section 1? Can you answer that
- 5 question?
- 6 A. Yes, I think it has to be removable optionally.
- 7 But just as in the DLL that we had been discussing
- 8 before, WININET, if there are clearly nonbrowsing functions in
- 9 that DLL, I think Microsoft could arrange for those functions
- 10 to remain behind when the OEM removes the Microsoft middleware
- 11 product.
- 12 O. And when Microsoft --
- 13 A. The analogy of functionality and functions in DLLs has been
- 14 likened to groceries in grocery bags.
- 15 Q. By Professor Farber. I remember it very well.
- Now, have you gone through that particular DLL, the
- one called SHDOCVW.DLL to make an assessment of which parts of
- 18 that you think belong in which of Professor Farber's grocery
- 19 bags?
- 20 A. No, I have not.
- 21 Q. Now, do you still have Defendant's Exhibit 1021 up there
- 22 with you, sir?
- 23 A. Which one is that?
- 24 Q. This is the nonsettling states' proposed remedy.
- 25 A. Yes, I do.

- 1 Q. Now, if you look at section 1, sir, in the first paragraph?
- 2 A. Yes.
- 4 It says that Microsoft must create an unbound version
- 5 of Windows operating systems from which the binary code for
- 6 each Microsoft middleware product may be readily removed.
- 7 Do you see those words?
- 8 A. Yes.
- 9 Q. May be readily removed.
- 10 Your interpretation of section 1, either your scenario
- 11 one that we talked about yesterday under which certain features
- 12 are moved into what you call the core operating system, or
- 13 replicated in other Microsoft middleware products, or your
- 14 scenario 2 that we discussed about today where things are
- 15 hidden from ISVs; those scenarios are impossible to square, are
- 16 they not, with the words "may be readily removed"?
- 17 A. No. I don't think they are at all.
- I think that a configuration tool, such as the Windows
- 19 XP Embedded Target Designer which Microsoft now provides to
- 20 OEMs, could be adjusted, modified, and improved to allow OEMs
- 21 to specify which Microsoft middleware products should be
- 22 removed and then to make the necessary adjustments of APIs.
- I think that that could be done automatically by a
- 24 tool that Microsoft could provide to OEMs so that OEMs would be
- 25 readily able to do it using the tool, and it would be able to

- 1 implement any of the different methods I described that are
- 2 technical options open to Microsoft.
- 3 Q. Well, in your first scenario, sir, nothing is being
- 4 removed; right? It's just being moved, not removed. It's
- 5 being moved.
- 6 A. I didn't say at all that nothing is being moved.
- 7 As I explained, if the OEM specifies to this tool to
- 8 remove a Microsoft middleware product, that doesn't mean that
- 9 Microsoft has the option of saying nothing will be removed.
- I said if there are certain shared subcomponents, then
- 11 their APIs -- then those subcomponents could be put into other
- 12 places in such a way that their APIs don't serve as a platform.
- 13 Q. Now, have you studied your colleague, Edward Felten's work
- in the earlier phase of this trial in which he determined how
- 15 much of Internet Explorer was shared and, therefore, not
- 16 removable from the operating system?
- 17 A. I have studied Professor Felten's work, and I would say
- 18 that the focus of his investigation, of his experiments, was
- 19 much more -- it's technically possible to make Microsoft
- 20 Windows 98 respect the user's choice of Web browser; that only
- 21 a secondary aspect of what he did was to see how much of the
- 22 binary code could be removed and leave the operating system
- 23 still functioning.
- I think that may be because he had a limited amount of
- 25 time to make all of his experiments. And I read his testimony

- 1 and when I read the discussion of his testimony in cross-
- 2 examination, I see that it's primarily about the technical
- 3 feasibility of making Microsoft operating system respect the
- 4 user's choice of Web browser.
- 5 Q. So I take it from your prior answer that you've read his
- 6 cross-examination during the rebuttal phase of the trial?
- 7 A. Yes.
- 8 Q. And presumably you know that he told me six or seven times
- 9 on a particular afternoon that he had removed Internet Explorer
- 10 from the operating system when, in fact, he had not. Is that
- 11 correct? Do you recall that in the cross-examination?
- 12 A. He said he removed Web browser functionality. And I can
- 13 explain.
- What he did in making the operating system respect the
- 15 user's choice of default Web browser was to attempt to identify
- 16 all of the approximately two dozen places where the Microsoft
- 17 Windows 98 operating system invoked a Web browser.
- And then what he did is for each of those places, he
- 19 modified the Microsoft operating system to look up what is the
- 20 user's choice of default Web browser and to invoke that Web
- 21 browser.
- 22 And then Microsoft found two more places where the
- 23 Windows 98 operating system invoked the Web browser that
- 24 Professor Felten had overlooked and discovered he had not
- 25 modified those two additional places where Windows 98 invoked

- 1 the Microsoft Internet Explorer Web browser instead of the
- 2 user's choice of default browser.
- 3 Q. Have you had occasion since I asked you at your deposition
- 4 whether you knew, to look and see how Professor Felten
- 5 implemented the Windows update functionality in his version of
- 6 Windows 98?
- 7 A. I have read the testimony, and I think I have an idea from
- 8 the testimony.
- 9 Q. Did you look at the exhibits to the testimony to see the
- 10 source code for the program that Professor Felten called
- 11 W update?
- 12 A. No, I didn't.
- 13 Q. Do you know of a Microsoft foundation class called C-HTML
- 14 Create?
- 15 A. No.
- 16 O. Do you know whether Professor Felten used that Microsoft
- 17 foundation class call to create an instance of Internet
- 18 Explorer in order to run his Windows update program?
- 19 A. I don't know if it would be an instance of Internet
- 20 Explorer. He may have relied upon a shared functionality in
- 21 the Internet Explorer DLLs.
- 22 Q. Are you familiar with an OCX which is called the Web
- 23 browser OCX in Windows XP?
- 24 A. No, I'm not.
- 25 Q. Do you know whether it is invoked by a command in MSC

- 1 called C-HTML Create?
- 2 A. I've already told you that I'm not familiar with the
- 3 C-HTML.Create.
- 4 Q. In your first and second scenarios for Microsoft's
- 5 potential compliance with section 1, what is being removed from
- 6 the operating system if Microsoft migrates the functionality
- 7 that used to be in a Microsoft middleware product into the core
- 8 of the operating system?
- 9 A. As I've said, if there's some part of the functionality of
- 10 a Microsoft middleware product that's needed by another part of
- 11 the operating system, that can be migrated so long as it
- 12 doesn't expose APIs. So what is removed are the parts that are
- 13 not specifically required by some specific other part of the
- 14 operating system.
- 15 Q. What if the percentage is 99.9999 percent of the
- 16 functionality of a Microsoft middleware product that is relied
- 17 on by other parts of the operating system, is there a limit to
- 18 doing that? Can Microsoft move all of that functionality to
- 19 the core?
- 20 A. I think that would be inappropriate. Are you using 99.9999
- 21 percent to indicate some realistic hypothetical?
- 22 Q. I absolutely am. I'm talking about the distinction between
- 23 a file called IEXPLORE.EXE, which is 64 kilobytes of code in
- 24 relation to the balance of the 24 files that comprise Internet
- 25 Explorer which are multiple megabytes of code?

- And my question to you, sir, is: Is it all right
- 2 under your view of section 1 for Microsoft to migrate into the
- 3 core of the operating system all of the functionality that the
- 4 other files in Internet Explorer provide to Windows, to Windows
- 5 Help, to the Windows update facility, to the multiple monitor
- 6 support in Windows, is it all right to migrate all of that into
- 7 the core of the operating system and take out nothing but
- 8 IEXPLORE.EXE?
- 9 A. No, I don't think it would be all right. And let me
- 10 explain.
- There's been much discussion of the 64 kilobyte file
- 12 IEXPLORE.EXE in this trial relative to many other components of
- 13 the Internet Explorer Web browser.
- In particular, there's been discussion of the fact
- 15 that the binary code for those files, except for IEXPLORE.EXE,
- 16 was not removed by Professor Felten from the code installed on
- 17 the Windows operating system. And, as I've explained, I believe
- 18 that's because Professor Felten's investigation was mainly on
- 19 the technical feasibility of respecting the user's choice of
- 20 Web browser.
- 21 And I think he could have made the further
- 22 investigation of now that the Web browsing functionality has
- 23 been removed from the operating system so that the user's
- 24 choice of Web browser is respected, what of the other software
- 25 files are no longer needed?

- 1 He did not have time to do that investigation, and he
- 2 conformed with Microsoft's stated policy on deinstalling
- 3 software applications. And that policy is: If you're not sure
- 4 which of these DLLs may be used by other parts of the operating
- 5 system, then leave them in.
- And this is the policy -- even though that could cause
- 7 DLLs to be left in even though no other part of the operating
- 8 system is using them.
- 9 And the Microsoft add/remove procedures of that time
- 10 were not able to identify which other parts -- which other
- 11 applications and other parts of the operating system were using
- 12 a particular DLL.
- So Microsoft had to adopt this policy that they
- 14 recommended to independent software vendors of: When you
- 15 remove your application, there may be DLLs that your
- 16 application depended on. You may even have provided those DLLs
- 17 when you shipped your application, but if you're not sure
- 18 whether other applications might also be using them, leave them
- 19 in. And so that's what Professor Felten did.
- 20 With a tool to analyze -- to better analyze the
- 21 dependencies between software modules, it would have been
- 22 possible to do a more accurate job and remove more of those
- 23 DLLs and not compromise any functionality of the operating
- 24 system or of any other middleware product, but Professor Felten
- 25 didn't undertake that investigation.

- 1 Q. Everything you just said about what Professor Felten did is
- 2 based on your speculation because Professor Felten is subject
- 3 $\,$ to a nondisclosure agreement with the Antitrust Division of the
- 4 Department of Justice that prevents him from talking to you
- 5 about what he did. Is that correct, sir?
- 6 A. Everything I've told you -- none of what I've told you is
- 7 based on what he told me personally.
- 8 All of what I've told you is based on my careful
- 9 reading of his testimony and the appendix of his testimony and
- 10 both of his cross-examinations, and from that I can understand
- 11 as a computer scientist what was going on there technically.
- 12 Q. So you can understand Professor Felten's motivation,
- 13 intentions, and time constraints based on what you read?
- 14 A. Yes. He testified about when he started the technical
- 15 experimental work and what he had to build in that amount of
- 16 time.
- 17 He testified a lot about removing Web browser
- 18 functionality, not removing the software code. He testified
- 19 about all the efforts.
- When I read the appendix to his written direct
- 21 testimony, he describes what his prototype removal program
- 22 does. And I can see that almost all of the things that he had
- 23 to implement in that prototype removal program had to do with
- 24 making the operating system respect the user's choice of
- 25 default browser. And so I can infer from that what the primary

- 1 purpose of his tool was.
- 2 Q. Look at the second paragraph of section 1 of the
- 3 nonsettling states' proposed remedy, which says: "With respect
- 4 to the unbound Windows operating system product that Microsoft
- 5 must make available within six months of the entry of this
- 6 final judgment, Microsoft shall make available a Windows
- 7 operating system product that permits the removal of the
- 8 Microsoft middleware products identified in definition X1
- 9 below."
- 10 Am I correct, sir, that you believe that Microsoft can
- 11 comply with that command in this proposed final judgment by
- 12 taking large blocks of what used to be Microsoft middleware
- 13 products and moving them to other parts of the operating system
- 14 and such that they do not disclose APIs to third-party software
- 15 developers?
- 16 A. Basically, yes.
- 17 If those blocks were to become so large they
- 18 constituted practically the entire Microsoft middleware
- 19 products I would begin to wonder whether this was an
- 20 appropriate way to comply.
- 21 Q. Is this one of those I-know-it-when-I-see-it tests or do
- 22 you have a percentage test that you can give me about how much
- 23 of any given Microsoft middleware product can be migrated into
- 24 what you call the core of the operating system before Microsoft
- 25 would have violated section 1?

- 1 A. I have given you a criterion. That is, if there's specific
- 2 functionality in a Microsoft middleware product that is needed
- 3 by some other part of the operating system it would be
- 4 permissible to migrate that functionality so long as it did not
- 5 serve as middleware.
- 6 Q. Have you ever had occasion to read the transcript of the
- 7 oral argument in the Court of Appeals in the first appeal of
- 8 this case where Judge Randolph was talking about a robot that
- 9 could weld and rivet? Have you ever seen that?
- 10 A. No, I have not.
- 11 Q. What conceivable benefit is there, Professor Appel, to
- 12 having functionality present in Windows operating systems that
- is hidden both from end users and software developers writing
- 14 applications on top of Windows?
- 15 A. At this point, you know, this may have to do with a kind of
- 16 economic or competitive analysis, so I will speculate that it's
- 17 related to giving producers of non-Microsoft middlewares an
- 18 opportunity to compete on a level playing field in getting
- 19 their middlewares installed by OEMs and distributed in other
- 20 ways.
- 21 Q. And it's your belief that as long as the Microsoft
- 22 functionality is present in the operating system and available
- 23 to be called upon by developers, other people will not be able
- 24 to get the sort of distribution that they need?
- 25 A. In that case the Microsoft middleware is distributed by

- 1 every OEM who would distribute the Microsoft operating system
- 2 if Microsoft requires by license that the OEMs do so, and so
- 3 that's a particular kind of distribution channel. But I think
- 4 I'd rather not testify in great depth about the economics of
- 5 distribution channels.
- 6 Q. Now, when you were deposed on the 13th of March of 2002 you
- 7 had not seen the source code for Windows XP. That is correct?
- 8 A. That is correct. I had -- I believe at that point I had
- 9 begun directing an investigation of that source code.
- 10 Q. So when you told me, then, that you were making inferences
- 11 based on your familiarity with other products in deciding that
- 12 the amount of technical difficulty that would be entailed in
- 13 making components optionally removable from five different
- 14 Windows operating systems, that was correct as of the 13th of
- 15 March; correct?
- 16 A. As of the 13th of March I had not personally inspected the
- 17 Windows operating system source code.
- 18 Q. And even as you sit here today you have not done the sort
- 19 of study that you would want to do before you testified under
- 20 oath to this court about the cross-dependencies that exist in
- 21 Windows XP between various components of the operating system?
- 22 A. That's right. I have not specifically studied cross-
- 23 dependencies of that kind.
- 24 Q. Now, there is a parenthetical that appears in section 1
- 25 that says that Microsoft has to make an unbound version of the

- 1 operating system from which the binary code for each Microsoft
- 2 middleware product, including any code providing similar
- 3 functionality that has been included in any other Microsoft
- 4 middleware product, may be readily removed.
- 5 Do you see that, sir?
- 6 A. Yes.
- 7 Q. Now, yesterday afternoon -- and correct me if I am wrong
- 8 because I do not want to misstate your testimony -- I
- 9 understood you to say that one of Microsoft's options would be
- 10 to take the code in a Microsoft middleware product -- any given
- 11 one like the HTML rendering engine -- and move it in copies to
- 12 other Microsoft middleware products. Did I understand you
- 13 correctly?
- 14 A. If you're characterizing the HTML rendering engine as a
- 15 Microsoft middleware product, I would disagree. It's a
- 16 component. It's a fragment of a Microsoft middleware product.
- 17 So could you restate the question?
- 18 Q. Sure. It's clearly a Microsoft middleware product under X
- 19 sub I, but it could become its own Microsoft middleware product
- 20 under --
- 21 A. You mean it's clearly not a Microsoft middleware product?
- 22 Q. I misspoke. You're right. It's clearly not on its own a
- 23 Microsoft middleware product under X sub I, but it could be
- 24 become one in the future under X sub 2, correct, if it met the
- 25 test?

- 1 A. I guess if it met the test of X sub 2 it might become one.
- 2 Q. And assume for me for present purposes that it does become
- 3 one, the HTML rendering engine in Windows which has its own
- 4 code name, is distributed separately and becomes a Microsoft
- 5 middleware product.
- 6 If Microsoft then decided to move copies of that HTML
- 7 rendering engine into the Outlook Express e-mail client and
- 8 into the Windows media player to show album, art and various
- 9 other things from the Internet, wouldn't that violate that
- 10 parenthetical in section 1?
- 11 A. I think the intent of that parenthetical is that in moving
- 12 the binary code, that any binary code providing similar
- 13 functionality to developers, that is through APIs. I
- 14 understand it doesn't say, "including any code providing
- 15 similar functionality to, or through APIs to ISVs." I think
- 16 that's the intent of the word "providing."
- 17 Q. But, sir, you think that the Windows Help system is an
- 18 application, don't you?
- 19 A. I said it's application level software that's
- 20 conventionally considered part of the operating system.
- 21 Q. Well, what if the Windows Help system as application level
- 22 software is calling upon multiple Microsoft middleware
- 23 products, is that code providing similar functionality to an
- 24 application? Does it have to be a third-party application?
- 25 A. I'm not sure exactly what the context of your question.

- 1 Q. I'm just -- I'm trying to make sense of the parenthetical
- 2 in section 1 in light of your testimony that one option
- 3 available to Microsoft would be to move the functionality of
- 4 Microsoft middleware products into other Microsoft middleware
- 5 products. That's the context.
- 6 A. And your question is?
- 7 Q. If we agree, for purposes of my question, that the Help
- 8 system in Windows XP is an application level program.
- 9 A. Yeah, but I'm not sure that's the same thing as an
- 10 application, so let me give you an example of what I mean by
- 11 that.
- There are certain requirements in the states' remedies
- 13 about the boundaries between applications and the platform
- 14 software.
- I don't think the intent is that the Help system is
- 16 considered an application, and therefore those disclosures are
- 17 not required on Microsoft, disclosures of APIs on the boundary
- 18 between the -- between the Help system and other parts of the
- 19 operating system.
- I think we are considering the Help system as part of
- 21 the Microsoft operating system. If you would like to say that
- 22 it's an application --
- 23 Q. Why don't we look at Exhibit B to your testimony, sir? Do
- 24 you have that up there? Your colored chart.
- 25 A. Colored chart?

- 1 Q. It's entitled: Software and Hardware Components on a PC.
- 2 A. Yes.
- 3 Q. Now, as I understand it, the block labeled app number 9 in
- 4 yellow is the Windows Help system, for example.
- 5 A. I'm see something like Notepad. This Exhibit B probably
- 6 can't express all of the detailed inter-relationships and
- 7 layers of a fairly complex operating system. It's meant as an
- 8 overview.
- 9 Q. It's a gross over simplification, is it not, sir?
- 10 A. It's a simplification. I simplified it so it could convey
- 11 the general arrangement of the components in an operating
- 12 system.
- I think that if I put every particular boundary,
- 14 category, and layer to illustrate every possible point about
- 15 operating systems, then it would have been incomprehensible.
- 16 Q. Wouldn't it have had to have been on a piece of paper the
- 17 size of the mall running between the Capitol and the Washington
- 18 monument in order to express all of the relationships in the 38
- 19 million lines of code in Windows XP?
- 20 A. I don't know if I can do that calculation.
- 21 Q. It would be a very, very large diagram, would it not, sir?
- 22 A. It would be a large diagram.
- 23 Q. Okay. Let's focus on app block 9, which I take it from
- 24 being in yellow in the key is both an app, an application, and
- 25 part of the operating system. Is that what you meant, sir?

- 1 A. Right.
- 2 Q. Okay. And there is an API numbered 13 which runs between
- 3 what you call the operating system kernel and app number 9.
- 4 A. That's right.
- 5 Q. And one of the things that you believe Microsoft would be
- 6 required to disclose under section 4(a) of the nonsettling
- 7 states' proposed remedy is the interface between the block app
- 8 9 and the operating system kernel. Is that correct?
- 9 A. Yes, basically.
- 10 Q. Now, when you tell the court that the APIs numbered 13 are
- 11 the Windows APIs, that isn't quite right, is it?
- 12 A. In what way do you mean?
- 13 Q. Well, if I went to a book at Barnes & Noble's or borders,
- 14 and there are such books, that describe the Windows 32 API set,
- 15 that would list a bunch of APIs of which the ones numbered 13
- 16 here would comprise roughly 2 percent. Is that correct?
- 17 A. Yes. I guess -- one every the many things that I didn't
- 18 show in this diagram for the purpose of keeping it to an
- 19 overview is the what we call the library liar implemented by
- 20 DLLs that provide API -- provide platform services. We could
- 21 say that -- I'm trying to figure out how to explain this in a
- 22 way that doesn't add need less answer of complexity because
- 23 it's a complex issue. RPTR'S NOTE amounts RPTR'S NOTE.
- The Windows -- the Win32 API set is what I would put
- 25 between the core operating system which includes many of the

- 1 DLLs in the system 32 folder. And the core operating system
- 2 comprises, the operating system kernel and some library
- 3 functionality. And that library functionality might be between
- 4 the API layered 13 and the box layered 14.
- 5 Q. But there are also interfaces, are there not, sir, between
- 6 the box labeled 14 which says operating system kernel and all
- 7 of the DLLs or dynamic /KALly linked libraries that you are now
- 8 telling me are part of the core operating situation tell?
- 9 A. There is an interface there, the kernel interface. It
- 10 might be more better classified as an A B I, an application
- 11 binary interface, and an application programmer interface.
- 12 But, yeah, there would be internal interfaces.
- 13 Q. So, this diagram is incorrect to the extent that the API
- 14 numbered 13 really doesn't belong sitting right on top of the
- 15 operating system kernel, it ought to be sitting on top of
- 16 roughly 5,000 DLs that sit on top of the operating system
- 17 kernel that themselves expose APIs to what you call middleware
- in applications; is that correct, sir?
- 19 A. I would say that the -- at the level of detail of this
- 20 diagram, those DLLs would be in the box labeled 14 which is why
- 21 it's a fairly big box as drawn on this diagram.
- 22 Q. Well, you didn't see fit, did you, sir, to explain to the
- 23 court that when you labeled this box "operating system kernel,"
- 24 you didn't mean that. You didn't mean just the kernel of the
- operating system, you meant a much, much bigger block of code

- 1 comprised of thousands of different files, all of which expose
- 2 APIs both to what you call middleware and to applications?
- 3 A. But I think if I -- that just reinforces my point; that of
- 4 the thousands of DLLs you're talking about, my point in
- 5 appendix C -- right -- the block labeled 14 labeled "operating
- 6 system kernel," if we talk also about the thousands of DLLs of
- 7 the Microsoft core operating system, I've drawn lots of little
- 8 dotted lines in the blocks 14, those are internal APIs. And
- 9 those thousands of DLLs themselves contain internal DLLs, APIs.
- 10 And the point that I'm trying to make -- that I was
- 11 making in my direct testimony with respect to these figures is
- 12 that the states' remedy does not require the disclosure of
- 13 these internal APIs.
- So if you're saying that there are thousands of other
- 15 things, these DLLs, in which the internal APIs also need not be
- 16 disclosed by the states' remedy, then I will agree with you.
- 17 Q. Let's be clear here, Professor Appel.
- 18 Your testimony is not talking about, as you said to me
- 19 in your deposition, cutting up the core, you are talking about
- 20 in Exhibit C cutting of the kernel; right? Isn't that what
- 21 your direct testimony says?
- 22 A. My testimony was that the states' remedy would not require
- 23 cutting up the kernel.
- 24 Q. That's correct.
- 25 A. And that is entirely true.

- 1 Q. Okay?
- THE COURT: Wait a minute. If you both talk we are
- 3 not going have a record and I'm not going to be able to keep
- 4 track. Keep in mind this is for my benefit.
- 5 MR. HOLLEY: I apologize.
- 6 THE COURT: It's not a private conversation.
- 7 A. The Windows core operating system comprises the kernel and
- 8 these library DLLs. And one way I think that the states'
- 9 remedy is not unduly burdensome on Microsoft is that it does
- 10 not require the disclosure of all of the internal APIs of these
- 11 components; not -- so the states' remedy does not require the
- 12 disclosure of internal APIs in the kernel and the states'
- 13 remedy does not require disclosure of internal APIs of all
- 14 these other components.
- And my estimate of those 39 million lines of source
- 16 code, I would estimate that perhaps a quarter of those lines of
- 17 code are the source code just for these internal APIs, these
- 18 boundaries between internal components of the Microsoft core
- 19 operating system and an internal components of Microsoft
- 20 middleware products. And the states' remedy requires the
- 21 disclosure of none of these internal APIs. That was the point
- 22 that I was trying to make in my testimony with respect to these
- 23 two diagrams.
- 24 Q. So on reflection, sir, in order to be accurate, if you had
- 25 it to do over again, you would scratch out the word "kernel" on

- 1 both Exhibits B and C and write "core operating system." Is
- 2 that your testimony?
- 3 A. With respect to this point, yes.
- 4 Q. Now, let's look back at Defendant's Exhibit 1447, which is
- 5 the list of the files that appear in these system 32
- 6 subdirectory of the Windows directory.
- 7 How many of these files are part of what we are now
- 8 calling the core operating system of Windows XP as to which you
- 9 say there is no section 4 obligation to disclose interfaces?
- 10 A. I don't think I can go through this list and based on these
- 11 file names tell you exactly what's what. I am not prepared to
- 12 do that.
- 13 Q. Now, if you look back at Exhibit B, sir, of your testimony.
- 14 If I'm standing in the aisle at Barnes & Noble's looking at
- 15 this book we were talking about earlier about the 32 bit of
- 16 Windows API set. Among those APIs will be the ones listed in
- 17 the box numbered 2, 7 and 8; is that correct?
- 18 A. I'm not sure which book you're referring to.
- 19 Q. Well, have you ever seen a book, sir, which describes all
- 20 of the Windows 32 bit APIs?
- 21 A. I'm not sure I've seen a book. I tend to read this kind of
- 22 thing on line. I think we could refer to 13 as the Windows
- 23 core IAP set, and clearly the states' remedy talks about the
- 24 interfaces between -- that Microsoft middleware products
- 25 exposed to their applications, such as line 7, and the API that

- 1 the underlying operating system exposes to middleware
- 2 applications.
- 3 Q. So if we're relabeling the operating system kernel as "core
- 4 operating system," it is not your testimony, is it, sir, that
- 5 the only things comprised within the 32 bit Windows API set are
- 6 in the block numbered 13?
- 7 A. Box number 13 is the core API set. And it's -- I guess we
- 8 can say that of all the APIs that I'm aware of that Microsoft
- 9 documents, some are the device driver APIs in box 15, and we
- 10 certainly know which ones those are. It's very easy to
- 11 distinguish what the device driver API. Some are the APIs
- 12 exported by Windows media player, and we can certainly identify
- 13 what those are.
- Some are the APIs exported by the specific other
- 15 Microsoft middleware products, and we can certainly identify
- 16 each one of those.
- 17 And perhaps the remainder are the ones in box -- in
- 18 line 13.
- 19 Q. But Microsoft, in promoting its operating system platform
- 20 to developers, draws no distinction, for example, between APIs
- 21 exposed by what you're now calling the core operating system
- 22 and APIs made available to developers by things that you choose
- 23 to call middleware; isn't that right?
- 24 A. Yes. That failure to make a distinction in Microsoft's
- 25 documentation is a form of binding the middleware to the

- 1 operating system. It's not a form that will be regulated by
- 2 the states' remedy, but it is related.
- 3 Q. Those things that the states choose to call middleware
- 4 Microsoft promotes to developers as integral functionality that
- 5 developers can call upon when building Windows applications;
- 6 correct?
- 7 A. That may well be true.
- 8 Q. Now, have you considered the application of paragraph 4(a)
- 9 little Roman two? And maybe you should go there. We can look
- 10 at it now.
- 11 A. Yes.
- 12 Q. Which talks about disclosing the APIs technical information
- 13 and communications interfaces that Microsoft employs to
- 14 enable -- maybe we should look at sub 1 first.
- 15 Each Microsoft application to interoperate with
- 16 Microsoft platform software installed on the same computer.
- Do you interpret the phrase "each Microsoft
- 18 application to refer to what you call application level
- 19 programs in Windows operating systems?
- 20 A. No, I don't.
- 21 Q. And why don't you, sir? Aren't they Microsoft
- 22 applications? I guess they might be considered Microsoft
- 23 applications.
- 24 A. That's not how I've been interpreting this sentence.
- 25 Q. It's certainly a plausible interpretation, is it not, sir?

- 1 A. It's a plausible interpretation, and in fact it's a
- 2 technically reasonable interpretation.
- 3 Q. If that interpretation is the correct one, then, isn't it
- 4 wrong to say that Microsoft would have no obligation under
- 5 section 4(a) to disclose interfaces inside what you call the
- 6 core operating system?
- 7 A. I guess if the interpretation of "application" included the
- 8 Help system, then the interface between the Help system and
- 9 other parts of the core operating system would need to be
- 10 disclosed. But, as I said, that had not been my interpretation
- 11 of Microsoft application.
- 12 Q. And wouldn't it extend much more broadly than just the Help
- 13 system?
- Wouldn't it apply to everything outside the kernel
- 15 based on your testimony that we looked at yesterday that
- 16 everything outside the kernel is a species of application?
- 17 A. I didn't say that. I said application level. And what I
- 18 meant by that is that it happens to run in an unprivileged mode
- on the hardware where it doesn't get carte blanche to access
- 20 every hardware device and those accesses must be mediated
- 21 through the operating system. This is what I referred to in my
- 22 direct testimony as a useful rule of thumb.
- 23 Q. Yes. And I'm trying to apply that useful rule of thumb to
- 24 section 4(a) little Roman 1.
- 25 If one plausible reading of this is that references to

- 1 Microsoft applications refer not only to things like Word and
- 2 PowerPoint and Age of Empires, but also apply to application
- 3 level programs in the operating system, that would include
- 4 everything outside the kernel, would it not?
- 5 A. I don't think so.
- 6 I think that, you know, something like the Help system
- 7 which the user can directly execute and interoperate with may
- 8 have a different -- there are other things, such as libraries,
- 9 which certainly don't constitute complete applications and
- 10 which are used only, you know, as parts of applications.
- 11 Not every interface between such libraries would need
- 12 to be disclosed, these would remain internal interfaces that
- 13 Microsoft is not under obligation to disclose under the states'
- 14 remedy.
- There's a difference between an application and a
- 16 chunk of library service code that may be useful to
- 17 applications. It may be true that that chunk of library
- 18 service code runs in unprivileged mode. So, following my
- 19 useful rule of thumb, it's more at the application level than
- 20 at the kernel level and so that means it can be a component of
- 21 an application. But I wouldn't say that it's an application.
- So, let me continue here and point out in section 2,
- 23 we talk about each Microsoft middleware product. That's a
- 24 fairly large chunk. And so section 2 draws a boundary around
- 25 the entire Microsoft middleware product and says that at that

- 1 external boundary the APIs need to be disclosed.
- 2 Section 4(a)2 doesn't say "each fragment of each
- 3 Microsoft middleware product." It doesn't say "each piece of
- 4 Microsoft middleware." Okay? And although in section 4(a)1
- 5 the word "application" is not capitalized, so I understand
- 6 there's no definition for it, I think we can all understand
- 7 that an application is a complete product. It's not a product
- 8 in the sense of what's, you know, individually sold at retail,
- 9 it's a complete set of coherent functionality. It's not just a
- 10 fragment that can, such as a library, that can be used in the
- 11 construction of an application.
- 12 Q. Do you have your deposition in front of you?
- 13 A. Yes.
- 14 Q. Can you look at page 16, please?
- 15 THE COURT: Is that the first or second one?
- 16 MR. HOLLEY: The first one, Your Honor.
- 17 BY MR. HOLLEY:
- 18 Q. Starting at line 19, Professor Appel, your answer is as
- 19 follows, is it not?
- "So that's the purpose of an operating system. And
- 21 roughly speaking, most other things are applications."
- You said that, didn't you?
- 23 A. Right. So let me give you an analogy.
- If I said that most things that I see out there on the
- 25 street are cars and you point to a tire and say, "Is that a

- 1 car?" I would say, "No. It's a component of a car."
- 2 Most of those application level libraries are, in
- 3 fact, useable by applications and in applications and, you
- 4 know, an application is not the same as any individual
- 5 fragment.
- 6 Q. Okay. Well, I'm happy to go back to Defendant's Exhibit
- 7 1447 and have you tell me -- give me any example of what you
- 8 think is an application whose interfaces would have to be
- 9 exposed under section 4(a) little Roman 1 of the nonsettling
- 10 states' proposal.
- And I would direct your attention, if it assists you,
- 12 to any of the executable files, approximately 300 of them, all
- 13 of which under the heading type say: Application.
- 14 A. First of all, I would say that the typical kind of API that
- 15 we're talking about here in section 4(a)1, the kind of API by
- 16 which an application interoperates with the Microsoft platform
- 17 software is not an API exposed by the application to serve as a
- 18 platform for something else, then it would be middleware.
- 19 It's a platform exposed by the platform -- excuse
- 20 me -- it's an API exposed by the platform software through
- 21 which the application itself can get services.
- So, it's really not asking the right question to say,
- 23 "Of these things, some of which may be applications, which of
- 24 their APIs need to be exposed?"
- The point is that these applications call upon

- 1 services from the underlying platform software, the operating
- 2 system and the middleware. And to the extent that the
- 3 Microsoft applications can receive services from the operating
- 4 system, then non-Microsoft applications ought to be able to
- 5 receive similar services, the same services from the operating
- 6 system.
- 7 And the APIs that Microsoft applications use to get
- 8 those services need to be disclosed and documented so that
- 9 developers of non-Microsoft applications can use those.
- So, section 4(a)1 is not really about APIs that might
- 11 be exposed by applications, it's about APIs that applications
- 12 use.
- 13 Q. I couldn't agree with you more. And let me ask my question
- 14 again.
- Of the 300 executable files, approximately, that
- 16 appear in Windows system 32, in Windows XP Professional, how
- 17 many of them are subject to the disclosure obligations of
- 18 section 4(a) little Roman 1 such that Microsoft would be
- 19 required to expose the interfaces between these files and lower
- 20 levels of the operating system?
- 21 A. I have not studied these files specifically or -- nor can I
- 22 infer exactly always what these files are from their names in a
- 23 three-word summary. So I don't think I'll be able to answer
- 24 that question right now.
- 25 Q. Conceivably the answer to my question, given the plausible

- 1 reading of section 4(a)1, is every interface between every one
- 2 of the 300 files listed as applications here and the balance ϕf
- 3 the operating system. Is that right, sir?
- 4 A. I quess it's possibly conceivable, but I think the fact
- 5 that the word "application" is printed here in the document is
- 6 just a consequence of the fact that the name of the file ends
- 7 with dot XE. And I don't think that that's a particular
- 8 criterion for whether this is a part of the core Microsoft
- 9 operating system or not.
- 10 It's certainly the case that there are dot XE files
- 11 that I consider part of the core operating system, but I can't
- 12 go through this list and categorize each one and -- so I'm not
- 13 going to do that.
- 14 Q. I appreciate that, sir. Put yourself in the position of
- 15 James Allchin, the senior vice president for Windows at the
- 16 Microsoft Corporation, when section 1 and section 4(a) come
- 17 into operation.
- I take it from your testimony that he won't be able to
- 19 rely on the notion that something is called an application in
- 20 the system 32 subdirectory of the Windows directory in
- 21 determining how to comply with the nonsettling states' proposed
- 22 remedy, because sometimes that might lead him to the wrong
- answer.
- 24 A. I have no confidence -- in general, it's a good rule. I
- 25 would not rely on the particular name of the file to make that

- 1 distinction. That is right.
- 2 Q. Now it's your belief, is it not, sir -- returning to
- 3 section 1. In the first iteration of the so-called unbound
- 4 versions of Windows that we talked about yesterday, Microsoft
- 5 would only have to make the components listed in 22 X1 that
- 6 definition of middleware optionally removable.
- 7 A. That's my understanding.
- 8 Q. And then in any subsequent unbound version the 22 X2
- 9 definition of middleware gets kicked in and it's both the
- 10 listed categories in 22 X1 and the 22 X2 definition that
- 11 determines what has to be made optionally removable. Is that
- 12 right, sir?
- 13 A. I don't specifically see the words "any subsequent unbound
- operating system," but that's basically my belief.
- 15 Q. And what -- is that based on your reading of section 1 or
- 16 based on something that you have been told?
- 17 A. I guess it's based on my reading of section 1 where it
- 18 says, "distributes beginning six months after." So,
- 19 presumably -- so what you said is approximately correct and
- 20 substantially correct.
- 21 If Microsoft releases an operating system more than
- 22 six months after the date of judgment, then it must make all ϕf
- 23 the middlewares in both parts of definition X removable.
- 24 Q. Now, let's look at the basic prohibition of section 1. It
- 25 says: "Microsoft shall not, in any Windows operating system

- 1 product, excluding Windows 98 and Windows 98 SE, it distributes
- 2 beginning six months after the date of entry of this final
- 3 judgment."
- 4 Now let's stop there. That can't sensibly mean any
- 5 operating system that Microsoft starts for the very first time
- 6 to distribute six months after the date of entry of this final
- 7 judgment, or otherwise the words "excluding Windows 98 and
- 8 Windows 98 SE" are pure surplusage; correct?
- 9 A. Yes, I think I would agree with you.
- 10 Q. So the prohibition is that Microsoft shall not in any
- 11 existing operating system that it distributes beginning six
- 12 months after the date of entry of this final judgment bind any
- 13 Microsoft middleware product to the Windows operating system
- 14 unless Microsoft also has available to the licensee an unbound
- 15 version.
- 16 Am I correct that this prohibition is unaffected by
- 17 the second paragraph of section 1?
- 18 A. It appears to be the case.
- 19 Q. And Microsoft middleware product, as used in this basic
- 20 prohibition, is both 22 X1 and 22 X2; is that correct, sir?
- 21 A. Yes.
- 22 Q. Now, yesterday we talked about all of the different
- 23 configurations that would be in any given unbound version of
- 24 Windows. Do you recall that, sir?
- 25 A. Yes.

- 1 Q. And it is your belief that Microsoft would not be obligated
- 2 under section 1 to test every conceivable permutation and
- 3 combination of those different configurations that would result
- 4 from removing what were called Microsoft middleware products
- from the unbound version of Windows XP?
- 6 A. It's my belief that Microsoft's obligation is to do
- 7 sufficient testing to assure that the different permissible
- 8 configurations of the operating system work well to the same
- 9 extent that Microsoft does sufficient testing to ensure that
- 10 the different configurations of the operating systems that it
- 11 already sells or that it would sell as the bound version would
- 12 work well.
- And I've explained, at present and in any conceivable
- 14 future, Microsoft can't test every possible configuration of
- 15 its operating system product, whether that's the bound version
- 16 or the unbound version, because even the bound version has many
- 17 different configurations that the OEMs can choose with respect
- 18 to which hardware device drivers are installed and so on.
- So what Microsoft does in testing the bound version is
- 20 to choose a representative sample of configurations to test,
- 21 and in that way, based on engineering judgment, Microsoft has
- 22 assurance that it's products work well.
- 23 And the same kind of procedure could be followed by
- 24 Microsoft to ensure that it's unbound version would work well
- 25 in any configuration; that it should devote the same level of

- 1 attention or achieve the same level of assurance that the
- 2 different configurations of its unbound version work well as it
- 3 does for the different configurations of its unbound version.
- 4 But in neither case would that be done by installing every
- 5 possible one of the two to the end configurations and testing
- 6 that configuration.
- 7 Q. I thought you told me yesterday that you were basically
- 8 ignorant of the way in which Microsoft tests its operating
- 9 systems?
- 10 A. I said I don't know in detail the procedures it uses. But
- 11 since I know it would be impossible to test the operating
- 12 system in every possible configuration of device drivers that
- 13 Microsoft currently supplies, then it must be based on some
- 14 engineering judgment of some other method of testing.
- 15 Q. Well, you're familiar with the concept of beta testing, are
- 16 you not, sir?
- 17 A. Yes.
- 18 Q. And one of the things that Microsoft does is, in addition
- 19 to its 5 million hours of internal testing, is to send a new
- 20 operating system out to beta test it with as many different
- 21 hardware configurations as it can to see whether bugs come up;
- 22 right?
- 23 A. Right.
- 24 And let's assume that there are 30 different device
- 25 drivers that one could install in a Microsoft operating system,

- 1 which I think is a conservative assumption, then there would
- 2 be, let's say, a billion different hardware configurations that
- 3 one could run the Microsoft operating system on.
- 4 And I doubt that in the beta testing that Microsoft
- 5 does it makes sure that every one of those billion possible
- 6 configurations is tested. So, in fact the beta testing is also
- 7 an example of a representative sample of hardware
- 8 configurations.
- 9 O. There is a material difference, is there not, between
- 10 testing an operating system that is for the most part stable
- 11 and consistent and has an Lexmark printer driver as opposed to
- 12 a Hewlett-Packard printer driver than the sort of ala carte
- 13 operating system that you are talking about. You will admit
- 14 that there is a totally different sort of testing burden;
- 15 right?
- 16 A. First of all, they are not just different printer drivers,
- 17 there are many other kinds of devices.
- 18 Second of all, as I explained, I believe, that when
- 19 you run the Microsoft operating system -- when a user runs the
- 20 Microsoft operating system -- and, of course, it's the user
- 21 experience that you want to make sure is free from bugs -- the
- 22 user will usually do so with some combination of application
- 23 level software.
- And so Microsoft presumably has some testing
- 25 methodology, including beta test, by which representative

- 1 combinations of the application level software is also tested
- 2 running on the Microsoft operating system platform.
- 3 And the application software is very varied, probably
- 4 much more so even than the device drivers. So, once again,
- 5 it's mathematically impossible to test every possible
- 6 configuration, you know, within the age of the universe, so
- 7 Microsoft tests a representative sample of configurations.
- 8 Q. Now, you just used the phrase in that answer "application
- 9 level software" as a synonym for "application," didn't you?
- 10 did you mean something else?
- 11 A. I may have meant application level software.
- 12 Q. Okay. And by using the phrase "application level
- 13 software, " did you mean to suggest that Microsoft ships its
- 14 operating systems with different applications like Word and
- 15 PowerPoint and Excel or did you mean Microsoft ships its
- 16 operating systems with different application level software of
- 17 the sort that we were looking at in Defendant's Exhibit 1447?
- 18 A. I meant neither. I meant that a user who purchases or who
- 19 beta tests the Microsoft operating system will purchase
- 20 applications from independent software vendors, some of those
- 21 70,000 applications that the trial court referred to, and try
- 22 out the Microsoft application. The beta tester will test the
- 23 Microsoft operating system and the user will attempt to use the
- 24 Microsoft operating system with some combination of the 70,000
- 25 independently-developed applications for the Microsoft

- 1 operating system product.
- 2 And the thing about an operating system is that its
- 3 job is to support those applications so that if those
- 4 applications can cause the operating system to crash or to have
- 5 other problems, then that's a problem that Microsoft wants to
- 6 discover during tests.
- 7 Now, Microsoft probably can't go out and purchase each
- 8 of those 70,000 applications to test whether they run well on
- 9 its operating system, but I imagine it purchases some of them.
- 10 And Microsoft certainly can't test every combination
- of those 70,000 applications because there would be
- 12 two-to-the-70,000 of them, which is a number larger than the
- 13 number of atoms in the universe, but Microsoft can test a
- 14 representative sample of those applications on its operating
- 15 system.
- 16 And I'm sure that it must do that in order to make
- 17 sure that its operating system is doing its main job, which is
- 18 to provide a platform for those applications.
- And my point is that those applications are quite
- 20 varied, and Microsoft can't test every combination of them.
- 21 has to choose a representative sample and use other testing and
- 22 engineering methodology.
- 23 Q. And if it is hellishly complex, time-consuming and
- 24 expensive to support all of those 70,000 applications, it would
- 25 only become exponentially more difficult if Windows was no

- 1 longer a stable and consistent operating system but was instead
- 2 under section 1 of the nonsettling states' proposed remedy, a
- 3 moving target from which any of a long list of Microsoft
- 4 middleware products in any combination could be removed at the
- 5 behest of any OEM. Is that not right, sir?
- 6 A. That is not right. You used exponential and that's a
- 7 technical term. It refers to the mathematical degree of
- 8 increase in the difficulty. I do not believe it would be
- 9 exponentially more difficult.
- 10 Yes, it will add some to the testing burden that
- 11 Microsoft has. Microsoft will need to do somewhat more testing
- 12 to support the bound and the unbound version of the operating
- 13 system than it does to support just the bound version.
- 14 Q. So will it go --
- 15 A. It's not the case that there will be no cost to Microsoft
- 16 in providing the unbound version of the operating system.
- 17 Q. Will the internal test time go from 5 million person hours
- 18 to 20 million person hours, to 100 million person hours, to
- 19 1,000 person hours? Do you know?
- 20 A. No, I don't know.
- THE COURT: At one point you talked about 70,000
- 22 applications and you, I believe, mentioned a name. The court
- 23 reporter didn't pick it up.
- THE WITNESS: A name?
- 25 THE COURT: It sounded like a name.

Ιt

- 1 THE WITNESS: I referred to the 70,000 applications
- 2 mentioned in Judge Jackson's finding of fact.
- 3 THE COURT: Okay. I didn't hear what the word was.
- 4 sounded like a name.
- 5 THE WITNESS: I may have said trial court.
- 6 THE COURT: Trial court. He's changing his paper.
- 7 Okay. All right. He's ready. Go ahead.
- 8 BY MR. HOLLEY:
- 9 Q. Now, Professor Appel, it is your belief that if a
- 10 third-party application, one of these 70,000 applications that
- 11 Judge Jackson found existed calls upon a specific Microsoft
- 12 middleware product under section 1 and that Microsoft
- 13 middleware product is removed by an OEM or a third-party
- 14 licensee and no substitute is put in its place, then Microsoft
- 15 is not responsible for the consequences of what happens to the
- 16 application; is that right?
- 17 A. When an application attempts to use functionality that's
- 18 been removed, Microsoft is not responsible for supporting the
- 19 removed functionality.
- So some of the functionality relied upon by some of
- 21 those applications may be removed by the OEM, that's right.
- 22 Q. Have you determined how many of those 70,000 applications
- 23 will crash if any one of the listed Microsoft middleware
- 24 products in 22 X1 is removed?
- 25 A. No, I haven't.

- 1 Q. If a third-party application calls upon APIs exposed by a
- 2 Microsoft middleware product and an OEM or a third-party
- 3 licensee replaces that Microsoft middleware product with a
- 4 defective substitute, what happens?
- 5 A. You're suggesting that an application would call upon an
- 6 API that is supported by a substitute middleware product that
- 7 doesn't work as well?
- 8 Q. That's correct.
- 9 A. Then the performance of that application will suffer.
- 10 Q. How many independent software vendors have you talked to
- 11 since you were retained by the nonsettling states to get their
- 12 views concerning the situation that would be created by
- 13 allowing every OEM in the world to remove different
- 14 combinations of Microsoft middleware products that expose APIs
- 15 to third-party products?
- 16 A. I don't recall specifically posing that question to them.
- 17 I have not talked to very many independent software vendors
- 18 about this kind of issue.
- 19 Q. If an OEM or a third-party licensee under section 1 removed
- 20 Internet Explorer, whatever we decide that is in the end, from
- 21 Windows XP and replaced it with Netscape Navigator, it's your
- 22 understanding that there are applications that call upon APIs
- 23 exposed by Internet Explorer and that will not run on Netscape
- 24 Navigator; is that right?
- 25 A. It is currently the case, I believe, that Netscape

- 1 Navigator does not support all of the same APIs that Internet
- 2 Explorer supports.
- 3 However, I believe that were the states' remedy to go
- 4 into effect there might be an incentive for non-Microsoft
- 5 browser developers to make their browsers support some of those
- 6 same APIs because there would be an opportunity for them to
- 7 have their browser substituted in this way and used as a
- 8 platform.
- 9 Q. How would the creation of perfect replicas of components of
- 10 Windows lead to greater competition in the market for
- 11 Intel-compatible PC operating systems?
- 12 A. I can explain.
- 13 First of all, I think perfect replica is not really
- 14 relevant. If we have a non-Microsoft middleware product that
- 15 can support many of the same APIs as a Microsoft middleware
- 16 product, it might have additional kinds of functionality in
- 17 other ways.
- 18 First of all, it might support other APIs, innovative
- 19 new APIs, so that it could support many of the existing
- 20 applications for Microsoft middleware products but it could
- 21 support new kinds of applications. It might support those same
- 22 APIs in a more efficient or effective way. So I think there is
- 23 lots of room for innovation.
- The fact that another middleware product supports some
- 25 of the Microsoft APIs certainly doesn't mean that that's all it

- 1 does.
- 2 Q. Well, in the current state of the world, there is all sorts
- of room for innovation, isn't there, because developers of
- 4 non-Microsoft middleware products can call upon as much or as
- 5 little functionality of something like Internet Explorer as
- 6 they want?
- 7 A. The point is, I think, that developers of non-Microsoft
- 8 middleware products may have in certain ways been excluded from
- 9 the market in ways that I'm not expert about, and so -- and in
- 10 order to give non-Microsoft middleware products an opportunity
- 11 to compete as platform software, they might like to support
- 12 some of the same applications that are interoperable with
- 13 Microsoft platform software. So the states' remedy is
- 14 attempting to do that.
- 15 O. Doesn't it have sort of a blinkered focus?
- I mean, what about all of the developers of Microsoft
- 17 middleware products -- excuse me -- of non-Microsoft middleware
- 18 products, such as RealNetworks with its RealOne Player, or
- 19 various other companies who elect to call upon Internet
- 20 Explorer because they don't want to do the work necessary to
- 21 create their own HTML rendering engine?
- In making life easier for Netscape Navigator aren't
- 23 you hurting those people?
- 24 A. I believe that an OEM who is trying to sell computers will
- 25 try to sell computers in such a way that somebody wants to buy

- 1 them. And, therefore, I think in the case, for example, of
- 2 HTML rendering, the OEM is likely, instead of just to remove
- 3 HTML rendering, to either leave it in or replace it. This is
- 4 giving options to the OEM. But I doubt that there are OEMs who
- 5 will choose unprofitable options.
- 6 Q. You think it's very unlikely that any OEM is going to
- 7 remove Internet Explorer from Windows if it knows that the real
- 8 media player called Internet Explorer, don't you?
- 9 A. I think that if -- if there started to be other browsers
- 10 that supported many of the same APIs as Microsoft Internet
- 11 Explorer -- not necessarily all of them -- and if those became
- 12 established in the market, and I think I'm a little bit beyond
- 13 my technical expertise, that RealNetwork might either target to
- 14 the API supported in common by different browsers or target
- 15 variously to the APIs supported by different browsers.
- 16 There are lots of technical options open to
- 17 RealNetworks and to the OEMs and to the independent browser
- 18 developers.
- 19 O. But let's focus on the current state of the world.
- Let's say that this document gets signed on Tuesday of
- 21 next week, which is highly unlikely, but let's assume that for
- 22 purposes of this question, and then six months later section 1
- 23 comes into effect.
- 24 By that point in time, RealNetworks has already
- 25 written its software to rely on IE, and I think you told me

- 1 earlier that as far as you understand there is no other Web
- 2 browser in the world that can substitute for all of the
- 3 functionality of Internet Explorer.
- 4 So in those circumstances, if an OEM like Dell decided
- 5 to remove Internet Explorer under section 1, RealNetworks would
- 6 be in a world of hurt; is that correct?
- 7 A. I think what would be a path to the end result of having
- 8 multiple middleware platforms is that once this goes into
- 9 effect, not six months after but on the day of, there would be
- 10 an incentive for the developers of other browsing software to
- 11 begin supporting some of the same APIs to provide the same
- 12 kinds of services to their applications as are now provided by
- 13 Internet Explorer.
- Right now, there's less incentive for them to do that
- 15 because they don't have a distribution path, and I won't, you
- 16 note, get further than that because I think this is beyond the
- 17 scope of my testimony.
- 18 But beginning on the date of the judgment, there is
- 19 the incentive for that software development by different
- 20 browser companies. And because they know that now the OEMs
- 21 will be able to substitute their browser for the Microsoft
- 22 browser, provided that their browser is competitive and that
- 23 will be the OEMs' market decision to make.
- 24 Q. On June 21 of 1995, at a meeting in Mountain View,
- 25 California, Microsoft told Netscape that it was developing

- 1 platform level Web browsing software which would expose its
- 2 functionality to third-party products. That was almost seven
- 3 years ago.
- 4 What is your understanding of what Netscape has been
- 5 doing since then to try to comply with the same programming
- 6 model?
- 7 Why does the incentive only begin when section 1
- 8 becomes effective?
- 9 A. First of all, I cannot, you know, judge anything that you
- 10 say about what Microsoft told Netscape at a given period of
- 11 time. I have not followed that.
- 12 Why is it that Netscape might not provide all of the
- same APIs as Internet Explorer? Well, some of the platform
- 14 functionality by which Internet Explorer supports things are
- 15 not disclosed and documented, so it's difficult for Microsoft
- 16 to find out exactly what -- for Netscape to find out exactly
- 17 what Internet Explorer is providing.
- 18 Some of the ways in which Internet Explorer supports
- 19 applications are not portable or not safe and so Netscape may
- 20 choose not to interoperate in that way. So there may be many
- 21 reasons related partly to lack of disclosure that this judgment
- 22 is attempting to remedy that Microsoft has not done that.
- 23 And finally, in recent years, there may be a lack of
- incentive to do a lot of development in the Netscape browser
- 25 because of market and distribution issues that I will only

- 1 speculate on.
- 2 Q. Netscape is owned by AOL Time Warner, one of the largest
- 3 corporations in the world; is that correct?
- 4 A. I believe that's correct.
- 5 Q. And AOL Time Warner among its many, many assets owns AOL,
- 6 the largest on-line service provider in the world, by a very
- 7 substantial margin; is that correct?
- 8 A. I'm not sure, but it may be correct.
- 9 Q. And if AOL Time Warner chose to distribute Netscape
- 10 Navigator to each and every one of its 38 million subscribers,
- 11 it can do that tomorrow, can it not?
- 12 A. I think if it did that, then it's browser would still be
- installed on fewer desktops than the Microsoft Internet
- 14 Explorer browser is because Microsoft requires every one of the
- 15 Windows operating system desktop licensees to have that browser
- 16 on it.
- 17 Q. How many developers -- excuse me. How many platforms in
- 18 your installed base do you need before you can attract
- 19 developers? More than 38 million?
- 20 A. I don't think I can answer that kind of question. I think
- 21 it's beyond my expertise.
- 22 Q. Well, Palm doesn't have 38 million users and yet it has a
- 23 lot of developers. You would agree with that, would you not,
- 24 Professor Appel?
- MR. HODGES: Objection, Your Honor. We are now

- 1 getting into the issues of economics and distribution. This is
- 2 not within the scope of direct testimony.
- 3 THE COURT: All right. If he's not in a position to
- 4 answer, then I will sustain it.
- 5 MR. HOLLEY: Your Honor, then I would move to strike
- 6 his testimony about distribution obstacles. He either knows
- 7 about distribution of software or he doesn't. He's the one who
- 8 opened the door to this line of questioning, Your Honor.
- 9 MR. HODGES: He was questioned on that, Your Honor.
- 10 don't believe that's true. If the last few questions about how
- 11 big is AOL and could they develop and distribute is what
- 12 Mr. Holley is speaking about, then I don't disagree with that.
- THE COURT: Is that what you're talking about or are
- 14 you talking about some other answer?
- 15 MR. HOLLEY: I'm talking about an answer he gave about
- 16 the reasons why Netscape over the last seven years has not
- 17 emulated Microsoft's model with Internet Explorer. And I
- 18 understood him to say that they didn't have an incentive to do
- 19 so because they didn't have distribution channels, and I was
- 20 just responding, Your Honor, to that assertion.
- THE COURT: I think he had some caveats around that,
- 22 however, in giving his answer. I think we are getting somewhat
- 23 afield.
- It also seems to me is about time to break for lunch.
- 25 Let me break at this point. We will see you back at 2:00

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                               CERTIFICATE
              I, EDWARD N. HAWKINS, Official Court Reporter, certify
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    that the foregoing pages are a correct transcript from the
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