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1	IN THE UNITED STATES DISTRICT COURT
2	DISTRICT OF UTAH
3	CENTRAL DIVISION
4	
5	NOVELL, INC., )
6	Plaintiff, )
7	vs. ) CASE NO. 2:04-CV-1045 JFM
8	MICROSOFT CORPORATION, )
9	Defendant. )
10	)
11	
12	
13	BEFORE THE HONORABLE J. FREDERICK MOTZ
14	
15	November 10, 2011
16	
17	Jury Trial
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1	A P P E A R A N C E S
2	
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3	Witness	Examinatio	n By	Page
4	Denald Aleria	Mrs. Hollor	(Crace Cont	<b></b> ) 1530
5	Ronald Alepin	Mr. Holley	(CLOSS CONC	) 1550
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14	Exhibit			Received
15	(No exhibits received.	)		
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1	November 10, 2011 8:00 a.m.
2	PROCEEDINGS
3	
4	THE COURT: Get the jury.
5	Were you able to sleep? That is a tough thing to
6	do.
7	THE WITNESS: Not to much, but I brought some
8	pillows.
9	(WHEREUPON, the jury enters the proceedings.)
10	THE COURT: Mr. Holley.
11	MR. HOLLEY: Good morning, Your Honor.
12	CROSS-EXAMINATION (Cont.)
13	BY MR. HOLLEY
14	Q. Good morning, Mr. Alepin.
15	Now, yesterday I believe, sir, that you told the jury
16	that you were the chief technology officer and vice
17	president of strategic planning for Fujitsu.
18	Is that correct, sir?
19	A. I said the I'm sorry. I believe the precise titles
20	were chief technical consultant for Fujitsu and then chief
21	technical officer and vice president of strategic planning
22	for Fujitsu software.
23	Q. You were never employed by either of those companies,
24	isn't that right, sir? You were not an employee of any
25	Fujitsu entity?

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1	A. No, I was under a contract.
2	Q. And no one reported to you at Fujitsu; isn't that
3	correct?
4	A. That is not correct.
5	Q. But at no point were you ever an officer of any Fujitsu
6	entity?
7	A. Do you mean in corporate governance?
8	Q. Well, typically people who are officers of companies
9	are employed by those companies.
10	Correct, sir?
11	A. I am afraid if you are asking whether I was a part
12	of the corporate governance, no, I was not.
13	Q. Now, yesterday Mr. Schmidtlein spent about an hour
14	talking about your experience in the software industry and
15	you didn't mention, sir, that for 18 years you were employed
16	by a law firm; isn't that right?
17	A. I was not employed by a law firm, but I was a
18	consultant to a law firm.
19	Q. You were the technology adviser to a very large law
20	firm called Morrison & Foerster which is headquartered in
21	San Francisco, correct?
22	A. That is correct, yes.
23	Q. And many of Morrison & Foerster's clients at the time
24	you were there had matters that were adverse to the
25	Microsoft Corporation; is that correct?
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1	A. I'm not sure.
2	Q. You don't know one way or the other?
3	A. That is what I said, yes.
4	Q. Now, I would like to return to a topic that we were
5	discussing yesterday afternoon before we broke. In terms of
6	the namespace extension APIs, do you agree with me that at
7	no time were those APIs implemented on the Apple Macintosh?
8	A. That is correct.
9	Q. And at no time were the namespace extension APIs
10	implemented on any variant of the operating system called
11	Unix?
12	A. That is correct.
13	Q. And at no time were the namespace extension APIs
14	implemented on IBM OS2?
15	A. That is correct.
16	Q. And at not time were the namespace extension APIs
17	implemented on any variant of the operating system called
18	Linux?
19	A. That is correct.
20	Excuse me. I am not sure.
21	Q. As you sit here today, you can't tell me one way or the
22	other whether the namespace extension APIs were ever
23	implemented on a variant of Linux?
24	A. That is correct. The Blind Project which implements
25	many of the Windows APIs may have undertaken to implement

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1	the namespace APIs on Linux, but I don't know whether they
2	have or not. It is a possibility, but I don't know.
3	Q. Okay. At no time, sir, were the namespace extension
4	APIs implemented on the operating system called NeXT?
5	A. That is correct.
6	Q. And at no time were the namespace extension APIs
7	implemented on Digital VMS?
8	A. That is correct.
9	Q. Now, you're familiar, are you not, Mr. Alepin, with an
10	application called CorelDRAW?
11	A. Yes, I am.
12	Q. And that is a product which is a personal productivity
13	application.
14	Is that not right, sir?
15	A. It is in the category of that personal productivity
16	application, although more specialized.
17	Q. And do you think that CorelDRAW is a full featured
18	personal productivity application?
19	A. I guess it depends on what people understand by full
20	featured personal productivity application, but I would
21	think it would be one.
22	Q. I would like to put up on the screen demonstrative
23	Exhibit 103.
24	Mr. Alepin, I hope the screen is visible to you, but
25	I'm going to give you one just in case.

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1	A. Thank you.
2	THE COURT: You're getting a little closer to the
3	books that I can read.
4	BY MR. HOLLEY
5	Q. CorelDRAW 6, version 6 was designed to run on Windows
6	95, correct?
7	A. It would appear to be that.
8	Q. And I'll represent to you, and maybe you know are
9	you aware of the fact that CorelDRAW 6 was released to the
10	market the very same day that Microsoft released Windows 95?
11	A. I was not aware of that, but it is entirely possible.
12	Q. And CorelDRAW 6 was such a popular personal
13	productivity application that there is a even a dummies book
14	about how to use it.
15	Is that right, sir?
16	A. I don't think it is a broadly used application, but I
17	think it is complicated enough that a manual for dummies is
18	necessary.
19	Q. Okay. Now, I would like to show you demonstrative
20	Exhibit 101.
21	Now, you're aware, Mr. Alepin, that there are certain
22	findings of fact from an earlier lawsuit involving Microsoft
23	that have been read, at least part of them have been read so
24	far to the jury.
25	Is that right, sir?

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1	The avera that there are findings of fast in the
	A. I'm aware that there are findings of fact in the
2	government case against Microsoft, but I am not sure what
3	their status is in this proceeding.
4	Q. And you're aware that one of those findings of fact is
5	this one, number 28.
6	Is that right, sir?
7	A. I'll read it and then I will see if I remember it.
8	Yes, I see that.
9	Q. Now, I'll just represent to you that when this
10	particular finding of fact was read to the jury a few weeks
11	ago, the Court instructed the jury that the word currently
12	in the last sentence meant 1999. So with that
13	representation can you tell me whether CorelDRAW is a full
14	featured personal productivity application as used in this
15	finding of fact?
16	A. I'm sorry. I missed the year that you were saying.
17	Q. 1999, sir.
18	A. And the question was can I tell you as of 1999 whether
19	CorelDRAW was a full featured
20	Q. Personal productivity application yes, sir.
21	A. That is the case, yes. Yep.
22	Q. Now, let's go back to slide number 7 from yesterday.
23	MR. HOLLEY: I'm not sure whose system that is on,
24	but if we can
25	THE COURT: I think it is over there.

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1	MR. HOLLEY: If the Novell folks would be kind
2	enough to put slide number 7 up, that would be beautiful.
3	Thank you very much.
4	BY MR. HOLLEY
5	Q. Now, let's go back to make sure that we are all on the
6	same page about this.
7	At any time between 1994 and 1999 was CorelDRAW able to
8	run on Netscape Navigator APIs excluding any Sun APIs?
9	A. I don't believe so.
10	Q. Okay. At any time between 1994 and 1999 was CorelDRAW
11	able to run on the APIs exposed by the combination of
12	Netscape Navigator, the Sun Java Virtual Machine, the Sun
13	Scripting Technology and the Sun Class Libraries, Java Class
14	Libraries?
15	A. Can you explain that a little bit more, please, what
16	you mean be run?
17	Q. Sure. And I will go back to what finding of fact
18	number 28 says. It says currently no middelware product
19	exposes enough APIs to allow independent software vendors
20	profitably to write full featured personal productivity
21	applications that rely solely on those APIs.
22	My question to you, sir, is between 1994 and 1999 could
23	CorelDRAW run on APIs, solely on the APIs exposed by
24	Navigator and the Sun Java technology?
25	A. Well, I think the answer is it is possible.

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1	Q. Did it?
2	A. It did not, but I thought your question was could it.
3	Q. Well, this product, CorelDRAW 6, was written to run on
4	Windows 95.
5	Right, sir?
6	A. Right.
7	Q. And so unless it was rewritten to run on a different
8	API set it wouldn't run.
9	Correct, sir?
10	A. That is correct, yes.
11	Q. And you're not aware of any full featured personal
12	productivity application that was written to run only on
13	APIs exposed by Navigator plus the Sun Java technology?
14	A. Well, I think we talked about that yesterday, the
15	effort that they had made the Corel folks had made to get
16	WordPerfect to run on that platform.
17	Q. And
18	A. It hadn't been successful, but this is a different
19	question I think from the one you were asking about whether
20	there was API sufficiency as opposed to whether the platform
21	would produce satisfactory results. That is what we talked
22	about yesterday, whether it was too slow or too buggy. I
23	think there were a few issues that we talked about
24	yesterday, but API coverage was not one that we used
25	yesterday.

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1	Q. Well, let's go back to what finding of fact 28 says.
2	It says currently no middelware product exposes enough APIs
3	to allow independent software vendors profitably to write
4	full featured personal productivity applications that rely
5	solely on those APIs. And there is a concept in there, is
6	there not, of profitability which implies success?
7	A. I don't know how profitably is applied in there. There
8	is I think I agreed with you yesterday as to the
9	performance capabilities or lack of performance capabilities
10	in the Java Virtual Machine in the early days, but I think
11	we were just talking about whether where were enough APIs
12	that could write the applications to run on that platform.
13	That is what I understood your questions to be.
14	Q. Well, let me ask a different question then.
15	Are you aware of any ISV that wrote a full featured
16	personal productivity application that ran solely on APIs
17	exposed by Netscape and Sun's Java technology that was a
18	commercial success?
19	A. I can't think of one during that period.
20	Q. Now, looking at Novell technologies, could CorelDRAW
21	between 1994 and 1999 have run on the APIs exposed by
22	WordPerfect and no other APIs?
23	A. I don't believe so.
24	Q. Could CorelDRAW have between 1994 and 1999 run solely
25	on the APIs exposed by what you describe as PerfectFit

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1	shared code technology, just those APIs?
2	A. No, I don't believe so.
3	Q. Now, you testified yesterday about something called
4	appware.
5	Is that right, sir?
6	A. Yes, briefly.
7	Q. Do you recall being asked at your deposition in this
8	case about appware?
9	A. Vaguely.
10	Q. You told me in your deposition that you couldn't think
11	of a single product that had ever been written to run on
12	appware APIs.
13	Do you remember that, sir?
14	A. That is correct. Vaguely I remember that.
15	Q. And you don't
16	A. I don't remember what the qualification was for the
17	type of program, but I remember having a discussion about
18	whether there were many programs available using appware.
19	Q. And as you sit here today it is not your testimony that
20	a full featured personal productivity application like Corel
21	6, CorelDRAW 6 could run on the APIs exposed by appware and
22	no other APIs?
23	A. I don't believe that it would be possible, but I am not
24	sure.
25	Q. Now, in terms of PerfectOffice, which is the last

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1	product listed here, you're not aware of any full featured
2	personal productivity application between 1994 and 1999 that
3	could run solely on APIs exposed by PerfectOffice, correct?
4	A. I am not aware of anything like that.
5	Q. Now, there is a reference here on slide seven to
6	something called OpenDoc. OpenDoc was an alternative to a
7	Microsoft technology called OLE.
8	Is that right, sir?
9	A. Yes, that is what I described yesterday.
10	Q. And because there are all these acronyms that are very
11	hard for people to remember, OLE, O-L-E, stands for
12	objection linking and embedding.
13	Is that right, sir?
14	A. Yes, it does.
15	Q. And the technology, as you said yesterday, is a
16	component interaction technology. So, for example, someone
17	could use OLE to cut a chart from an Excel spreadsheet and
18	paste it into a Word document?
19	A. And more. And more. It is not just cut and paste.
20	Cut and paste and edit in place.
21	Q. Now, OpenDoc, the technology referred to on slide
22	seven, was a specification promoted by Microsoft's
23	competitors, but it was never incorporated into any shipping
24	product; is that not right?
25	A. That is not correct.

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1	O Well de veu regell me esting veu in veur depesition
	Q. Well, do you recall me asking you in your deposition
2	whether you could name a single product that had ever
3	incorporated OpenDoc technology?
4	A. I remember being asked that question, yes.
5	Q. Right. And do you recall telling me that you could
6	only think of one, and you couldn't remember the name?
7	A. I can now. I know now of three and I can't remember
8	the names.
9	Q. Okay. At least you're consistent on that part. Okay.
10	In 1994 there were thousands and thousands and
11	thousands of software products that relied on Microsoft OLE
12	technology, correct?
13	A. That is correct.
14	Q. Now, when people are developing software there is a
15	concept called mission creep that you're familiar with,
16	right?
17	A. There is feature creep and mission creep, yes, two of
18	them.
19	Q. So we have two creeps. Mission creep occurs when
20	software developers add features to a product as they are
21	working on the product; is that right?
22	A. That is correct. They overreach.
23	Q. And sometimes those software developers do that without
24	the knowledge of the people who are managing them; isn't
25	that right?

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1	A. It depends on the management team and the development
2	process, but if it is undisciplined or improperly managed
3	then, in fact, you do get mission creep.
4	Q. And you have seen that in your career, sir, where
5	without the knowledge of more senior management, software
6	developers start adding features to products that they think
7	are cool?
8	A. In the past I have seen it, yes.
9	Q. And sometimes it is necessary as the project moves
10	along to trim some of those features that the software
11	developers have decided to include in the product?
12	A. Well, I don't want us to get confused here by this.
13	Mission creep usually happens in the plumbing of the
14	program, so people on the development team think, well,
15	gosh, it would be nice to have a more efficient way of
16	exchanging information underneath the covers. Mission creep
17	does not occur whereby, or at least it is not what I
18	understood to be mission creep, where the features we're
19	going to tell the customers about start expanding.
20	Q. So your testimony is that mission creep never involves
21	the addition of features visible to end user customers?
22	A. Well, never is a tough word, a tough standard to meet
23	here. I don't know whether never is the case, but what I
24	usually use the term mission creep to mean is when
25	developers start doing things inside the plumbing of the

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1	program that do not add anything to the value of the product
2	as seen by the customer.
3	Q. But sometimes the development team looks around for
4	something else to add to the product, and they keep adding
5	incremental features and functions.
6	Is that not right sir?
7	A. That is feature.
8	Q. That is feature. Okay. So mission creep is when
9	people try to improve the internal operation of the product,
10	and feature creep is when they keep adding more features to
11	the product?
12	A. That is right. We're going to build the best word
13	processor, and then internally they say we're going to build
14	the best word processor, and we're going to have some super
15	fancy memory management scheme, and then people say we are
16	not paying you for super fancy memory management, we're
17	paying you for a good word processor.
18	Q. And it is very important in a software development
19	project for management to have hands-on control to make sure
20	that the software developers don't engage in mission creep
21	and feature creep.
22	Is that right, sir?
23	A. That is right. Oftentimes you organize so that you
24	have a development manager and a program manager. The
25	program manager is responsible for making sure that you are

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1	going to meet your dates and the product is going to do what
2	you have agreed to do, what you internally signed up to do,
3	so you kind of structure the organization to make sure that
4	there is a check on the development team.
5	Q. Now, in developing a complicated software product there
6	are numerous constraints that these program managers and
7	project managers that you have just described need to take
8	into account; isn't that right?
9	A. I'm sorry. There was a noise over the last part of
10	your sentence.
11	Q. Sorry. I will repeat my question.
12	So in managing a complex software development project,
13	these program management and project management people that
14	you just described need to take into account various
15	constraints; isn't that right?
16	A. Absolutely. The development of any product, software
17	or hardware, is one of balancing constraints. Yes, you have
18	to live within the constraints.
19	Q. And among the constraints that need to be balanced in a
20	complex software project are the time deadlines for
21	releasing the product. That is one, isn't it?
22	A. That is one, although I think history tells us that
23	that is the most elastic of the constraints under which a
24	software development project operates, because software is
25	sometimes looking at Microsoft's products, for example,

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1	they tend to be late and they don't meet their deadlines,
2	their announced deadlines, so there is the ability maybe to
3	push out on a deadline.
4	Q. In fact, that is epidemic in the software industry
5	across the board that people are overly optimistic and
6	frequently miss their release dates.
7	Isn't that right, sir?
8	A. I think that there are some organizations that do that,
9	yes.
10	Q. Now, another constraint that the management of a
11	complex software product needs to bear in mind is what
12	manpower they have available to the project; is that right?
13	
14	
	can do and when you can do it.
15	Q. And another constraint is the skill sets of the people
16	who have been assigned to work on the product; is that
17	right?
18	A. Yes. Of course, skill and ability are inputs to the
19	development process.
20	Q. And familiarity with the programming language that the
21	software product is written in is something that can slow
22	down or lack of familiarity, I guess I should say, with
23	the programming language that a product is being written in
24	can slow down the development of the project; isn't that
25	right?

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There is a learning curve for new technologies that is 1 Α. 2 the same for development languages as it is for new platform 3 technologies. Software developers are continuously taking in new technologies and internalizing them and developing to 4 them and with them. The introduction of a new operating 5 system, for example, is one where there are new APIs and new 6 7 features and new components that have to be studied and 8 understood and exploited.

9 Q. If people are writing in an object oriented programming 10 language like C++, and they don't know much about C++, that 11 could slow them done, correct?

12 Α. It depends on -- there are other object oriented 13 program languages, object oriented designs inseparable from 14 C++, and the C programming language is a very close relative 15 of C++, so there are three different things that can make 16 the use of C++ nothing more than changing one's shirt. 17 But if people are taking classes, if the developers Q. working on a project that is being written in C++ are taking 18 19 classes to enable them to understand how to write in C++, 20 that could be a constraint that slows down the project, right? 21 22 It depends on what type of C++ programming class you're Α. 23 taking. If you're taking one from the local community 24 college, the assistant professor's introduction to 25 programming, then there might be some issues.

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1	But if you're taking a class in advanced concepts or
2	something like that, then it may be just some additional
3	optimization that you're learning or something else that
4	you're making sure that you have covered in your use, your
5	particular use of the programming language. It is not
6	clear it is not clear just because you're taking a course
7	that you're suffering from a constraint.
8	Q. Well, what if people on the team believe that they had
9	a lack of C++ experience and, therefore, were taking classes
10	to learn about the programming language? In that situation
11	you would agree with me, would you not, sir, that that lack
12	of C++ experience would be a constraint?
13	A. Again, it depends on where or in what way they felt
14	they were missing something. It is not I don't know. I
15	mean, if you have some specific thing that you're thinking
16	of, but if I needed a refresher course in C++ to help me,
17	that would be something different.
18	Q. Well, let's look at the documents and see if that will
19	help us at all.
20	A. Okay.
21	Q. I'm showing you Defendant's Exhibit 108 which is in
22	evidence in the case. It is entitled PerfectFit Extended
23	Services Group status report for May 1995. Now, May of 1995
24	is three months before the release of Windows 95, correct?
25	A. Yes. August 25th is the release date.

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1	
1	Q. Now, if you'll turn I'm sorry, it does not have
2	internal pages, but it does have Bates numbers at the
3	bottom. If you look at the one that is NOV-V01904058, and
4	just tell me, sir, when you are there.
5	A. I'm there.
6	Q. Down in the heading at the bottom, problems
7	encountered, it says our lack of experience in the area of
8	OOAD, and that means object oriented application
9	development, correct?
10	A. I'm not sure. I might have I might have thought it
11	was architectural design, but it could be application
12	development.
13	Q. I'm happy to accept your interpretation, so let's say
14	that it means object oriented architectural design. So in
15	May of 1995, three months before the release of Windows 95,
16	the PerfectFit team is saying that it has a lack of
17	experience in the area of object oriented architectural
18	design, correct?
19	MR. SCHMIDTLEIN: Objection, Your Honor, it
20	mischaracterizes the document. It says PerfectFit Extended
21	Services Group not the PerfectFit team.
22	MR. HOLLEY: Your Honor, I believe that when
23	either Mr. Harrall or Mr. Richardson was asked whether this
24	was the PerfectFit team he said yes, but obviously the
25	record is what it was.

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1	THE COURT: Well, you can ask your question.
2	Actually you have got a transcript so you can establish it,
3	but the jury's recollection finally will control.
4	MR. HOLLEY: Obviously the jury remembers what
5	they do, and I don't mean to suggest otherwise.
6	BY MR. HOLLEY
7	Q. My question, Mr. Alepin, is in May of 1995, three
, 8	months before the release of Windows 95, among the problems
9	encountered is a lack of experience in the area of object
10	oriented architectural design?
11	A. Yes. I think I prefer your application design, now
12	that I have read the document.
13	Q. Okay.
14	A. I am sorry.
15	Q. That is all right.
16	A. I didn't have enough time to read the document.
17	Q. All right. Let's say that the lack of experience is in
18	object oriented application development.
19	A. Uh-huh.
20	Q. Now, that lack of experience could slow down the
21	development of a project that is being written in an object
22	oriented programming language like C++, correct?
23	A. Well, a lot of consideration is in there. It depends
24	if you have built in enough time for the team to learn that
25	then this is simply a reflection of a problem that they are

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1	having within the allocated time. It is not necessarily
2	that they are slowing that they are slowing down against
3	their deadlines, it is just that at this point in time they
4	may have learned that they don't have specific skills that
5	they needed for they have realized that they need some
6	specific skills.

Q. Well, if your hope is to release a product in August of 1995, isn't it a little late in the day to be learning how to write the product in May of 1995?

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10 Well, I mean, if it is -- oftentimes people write in Α. 11 these reports -- I don't know what the purpose is of a 12 status report, but you're supposed to write what you learned 13 and what you experienced during a particular period, and the 14 lesson learned was that we learned that we didn't have 15 certain skills and that slowed us down and cost us some 16 time. So in the future if you're planning a project like 17 that, please make sure that you do this. I mean, it looks 18 like it is a post sort of reflection on the past experience, 19 not necessarily a forward looking thing.

Q. So the lesson learned is before you start writing in
French you better know how to write in French, right?
A. That, or not being well schooled in French may slow you
down, yes.

Q. Now, if your release date is important to you for yoursoftware product, is it sometimes necessary to throw things

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1	over the side in order to get the product out the door in a
2	timely way, correct?
3	A. Well, it is a very fact specific situation.
4	Q. But you are aware, sir, are you not, of situations in
5	which in order to get a product out the door in a timely way
6	it was necessary to throw things over the side?
7	A. As I said, in some cases you may push the deadline
8	back, and in some cases it may be possible to add more folks
9	to the plan. In some cases it may be that you drop
10	something that is a feature that it depends very much on
11	the facts.
12	Q. But one of the things that you can do, if you think
13	that it is critical to get your product out the door at a
14	particular time, is to take some of the features and throw
15	them over the side?
16	A. Again, it is fact dependent, but it may be possible.
17	If you promised features
18	THE COURT: Could you speak in the mike?
19	THE WITNESS: If you promise features, or if there
20	are certain things that are essential to the product, then
21	you can't throw them over the side.
22	BY MR. HOLLEY
23	Q. I appreciate that clarification, but I just want to
24	make sure that you and I are on the same page.
25	If you believe it is critical that you get your product

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1	out the door at a particular time, one of the things that
_ 2	you can do is to take some of the features and throw them
2	over the side?
4	MR. SCHMIDTLEIN: Objection, asked and answered.
5	THE COURT: It was answered frankly in a way that
6	is inconsistent with some of the evidence, so you can ask
7	again.
8	Assume that you have got a deadline and assume
9	that you can't add people to the project.
10	MR. SCHMIDTLEIN: He testified that it is
11	depending on the fact.
12	THE COURT: Absolutely, but the evidence he is
13	that people couldn't be added to the project according to
14	Mr. Harrall and the others, and that the whole logic of the
15	case is that there is an inelastic deadline.
16	THE WITNESS: If it is core features that you're
17	throwing out if your product is defined let's take an
18	example. If you say that our product is going to be a
19	Windows 95 word processor and you throw off the ability to
20	run on Windows 95, then you don't have a product. Some
21	features you can disregard, and some features it may be
22	possible to discard in order to achieve a target deadline,
23	but some features are essential and define the product and
24	they are the essence of what you're building the product
25	for.

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1	BY MR. HOLLEY
2	Q. And if you feel that your deadline is critical, and
3	that the things that you might delete are in your words
4	core, one of the things that management can do is add some
5	skilled, experienced software developers to the project and
6	make it move faster.
7	Is that not right, sir?
8	A. Well, I think there is a lot more knowledge and
9	literature on the optimum size of programming teams and the
10	problems associated with adding people to projects both
11	beyond the optimum size and the cost of acculturation and
12	education and the delays attendant in bringing new people
13	into a project you are already on. The bad news is
14	generally that it slows the delivery of a project, not that
15	it accelerates it.
16	Q. Mr. Alepin, are you now changing the answer, sir, that
17	you gave me two minutes ago? You said that someone had
18	three choices. They could either extend the deadline, if
19	that was feasible, they could add more people to the
20	project, or they could delete features.
21	That was your testimony, sir.
22	A. That is correct.
23	Q. And you're not backing away from that, are you, sir?
24	A. No, I am not.
25	Q. Okay. Now, Novell could have dropped some of the

1	Case 2:04-cv-01045-JFM Document 427 Filed 01/18/12 Page 28 of $45^{54}$
1	features that it was trying to include in the PerfectFit
2	file open dialogue without losing credibility in the
3	marketplace?
4	MR. SCHMIDTLEIN: Objection.
5	Can I be heard, Your Honor?
6	THE COURT: You may.
7	(WHEREUPON, a bench conference was begun.)
8	MR. SCHMIDTLEIN: This is well beyond the scope of
9	the direct testimony of this witness. This witness
10	testified about middleware products, he testified about
11	technical justification and he testified about the mapping
12	share. He did not testify about the development schedule
13	and the development issues surrounding the development of
14	WordPerfect and development of PerfectOffice. This is
15	beyond the scope.
16	THE COURT: No. I understand.
17	MR. SCHMIDTLEIN: Your Honor, respectfully, I make
18	an objection, and I understand you may overrule my
19	objection, but your commentary
20	THE COURT: I'm sorry, but the logic of this case
21	is that there was an inelastic deadline and you talked about
22	an inelastic deadline in those terms, and I know that Mr.
23	Frankenberg said that you could throw resources at it.
24	Harrall and the other guy said that you couldn't throw
25	resources at it, so watch out when you object.

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1	Mr. Holley, how is this not beyond the scope?
2	MR. HOLLEY: Because he testified that their
3	inability to use the namsepace extensions is what delayed
4	the product, and that was the entire second part of his
5	testimony. I'm just exploring that and trying to point out
6	that there were other reasons why they were late.
7	MR. SCHMIDTLEIN: I don't think he testified about
8	the timing at all. He testified about the technical
9	justifications.
10	MR. HOLLEY: Well, implicit in that is the notion
11	that the namespace extension APIs are what delayed them.
12	That is their case.
13	MR. SCHMIDTLEIN: Yeah, and the testimony
14	MR. HOLLEY: Your Honor, I will move on.
15	THE COURT: I think there is a
16	MR. HOLLEY: Thank you, Your Honor.
17	(WHEREUPON, the bench conference was concluded.)
18	BY MR. HOLLEY
19	Q. You testified yesterday, sir, about beta testing.
20	Do you recall that?
21	A. Yes.
22	Q. Now, a beta program is when a software development
23	company feels that software is reasonably stable and close
24	enough to let a larger community of users work with it, but
25	they use it at their own risk.

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1	Is that not right, sir?
2	A. Yes, they use it at their own risk. They shouldn't run
3	their business critical applications on this software and
4	expect what the results will be, correct.
5	Q. Because it is not finished yet, right, sir?
6	A. Because it may not work completely.
7	Q. And it may change; isn't that right?
8	A. The expectation is that the software is being worked
9	on, that is correct.
10	Q. Now, one of the reasons that a PC operating system like
11	Windows 95 that is being beta tested might change, is if the
12	people who are testing it report that it has a problem; is
13	that right?
14	A. Beta tester experience is input to the development
15	process and used to identify problems which need fixing,
16	issues that need attending to by the development team. That
17	is part of the beta process, yes.
18	Q. So the answer to my question is, yes, one of the
19	reasons why a PC operating system might change is if beta
20	testers report that it has bugs or malfunctions?
21	A. I think that is fair, yes.
22	Q. And that would include if an API exposed in the beta
23	version of an operating system could cause the operating
24	system to crash, correct?
25	A. I think that is a little I think that if the API was

#### Case 2:04-cv-01045-JFM Document 427 Filed 01/18/12 Page 31 of $45^{57}$ not properly implemented and it did not conform to 1 2 specifications, and instead of producing X it produced the 3 blue screen, then there would be a need to fix the implementation. 4 If it couldn't be fixed, the implementation could not 5 Ο. be fixed in time to get the operating system released on the 6 7 schedule that the operating system vendor thought was 8 important, one choice would be to remove the API from the 9 system, correct? 10 That is a pretty big -- there are a lot of bridges that Α. would need to be crossed before you would exercise that 11 12 option if, indeed, you would exercise that option. 13 Q. But it is an option, sir. If you cannot change the

14 implementation of the API and still yet your new operating 15 system out in the time that you think is important to 16 release it, one option is to take out this misbehaving API, 17 correct?

Well, and you believe that the particular item that 18 Α. 19 you're analyzing is in fact important enough to warrant that 20 kind of drastic action, so that the behavior you're observing is sufficiently severe or the circumstances 21 22 surrounding it are unique enough and there are no other 23 remedies, then there is always the nuclear option. 24 Now, you have been a beta tester yourself. Q.

#### 25

Is that right, sir?

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1	A. I have the scars to show that, yes.
2	Q. And you say you have the scars because you have worked
3	with products under development that were in many respects
4	incomplete and did not perform the way that you thought they
5	should.
6	Is that right, sir?
7	A. That is correct. One of the problems is that beta
8	software can lull you into a false sense of working
9	properly, and then all of a sudden surprise you.
10	Q. Surprise you by malfunctioning in a way you were not
11	expecting, right?
12	A. Yes. If you go into a corner that you had not been
13	before and it does not work properly, it sometimes
14	disappoints you.
15	Q. We talked yesterday about the number of APIs exposed by
16	Windows 95, and I don't want to put words in your mouth, but
17	you agreed with me that they number in the thousands.
18	Is that right, sir?
19	A. Yes.
20	Q. And you're familiar, and I believe you may have
21	testified about it yesterday, with a Microsoft program
22	called the Microsoft Developer Network, which provides
23	information to software developers about those thousands of
24	APIs, correct?
25	A. That is correct. I am a card carrying, dues paying

	Case 2:04-cv-01045-JFM Document 427 Filed 01/18/12 Page 33 of $45^{59}$
1	member for 20 wears almost
1	member for 20 years almost.
2	Q. It is fair to say that there is so much information
3	provided in MSDM releases, Microsoft Developer Network
4	Releases, that it is difficult to read all of it?
5	A. Well, it is not like War and Peace. You don't start at
6	page 1 and go to the end. You read it by topic of interest.
7	So you it is more like a recipe book or an encyclopedia.
8	It is not a romance novel.
9	Q. Depending on your personal taste, but
10	A. In spite of the appearance that some of my developer
11	colleagues may have given you.
12	Q. But in scale it is more like Encyclopedia Britannica.
13	It is a huge amount of information?
14	A. O.C.D., yes.
15	Q. There are books published by Microsoft Press and other
16	third-party publishers which do the same sort of thing,
17	right? They explain to software developers how to call the
18	APIs exposed by Windows?
19	A. Microsoft Press publishes a significant number of books
20	like that. They publish some magazines to third parties,
21	and they support the activities of third party publishers
22	and authors to develop books that also explain Microsoft
23	APIs and programming systems.
24	Q. You told me in your deposition that you yourself had
25	some many of those books that your bookshelves were sagging

1	Case 2:04-cv-01045-JFM Document 427 Filed 01/18/12 Page 34 of $45^{60}$
1	under their weight; is that correct?
2	A. They have sagged.
3	Q. But now they are
4	A. That is correct.
5	Q. Now, in addition to having these published exposed
6	APIs, there are also thousands of internal interfaces inside
7	of an operating system like Windows 95 that are not
8	documented; is that right?
9	A. Well, here we have to say not disclosed, not publicly
10	disclosed as opposed to documented. My belief is that there
11	is documentation. It is internal to Microsoft. It is not
12	published, to be made available to the world at large.
13	Q. And for very good reasons, right?
14	A. I think that that is correct. There is an internal
15	there are internal interfaces and there are external
16	interfaces and there are reasons for the separation.
17	Q. And one of the reasons why an operating system vendor
18	like Microsoft may choose not to disclose one of these
19	internal interfaces, is because it wants to preserve its
20	ability to change that interface in the future?
21	A. That is correct. I think a reason for selecting
22	interfaces that you keep and that you have disclosed is
23	because there is a need for them in the user community, and
24	that the users need to be able to do certain functions, and
25	so you publish interfaces to support those activities.

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1 There are some interfaces which you keep internal, because 2 among the reasons that you might keep them internal is that 3 you do not wish customers to attach to them, lest you be obligated to support them in the future. 4

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Now, even if you don't want to be tied to maintaining Ο. an interface into the future, you may be stuck with it as a 6 7 practical matter once you have told people what it is, once you have told software developers what it is; isn't that right?

10 There are a couple of circumstances. One is as you Α. 11 have described that you're stuck with it once you have told 12 customers. The other is that customers -- from the early 13 days customers have reached into the operating system and 14 tied their application programs to the operating systems in 15 ways that the vendor did not entirely intend but for which 16 there was no alternative to being able to provide a fully 17 functioning program on the platform.

Lotus One Two Three in the early days of DOS is an 18 19 example of that. They significantly connected their 20 software to unexposed APIs in the DOS operating system in order to provide customers of One Two Three with that 21 22 function of the program.

23 And these undocumented APIs that people use, when they Q. 24 discover them as you have said, they to that without any 25 formal documentation from Microsoft?

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1	A. I'm referring to a specific period in time when it was
2	possible to know those things. As the system becomes more
3	complex it becomes less possible to identify interfaces and
4	to be able to understand them with sufficient certainty and
5	confidence that you can make use of them other than for
6	experimental purposes.
7	Q. Well, you have talked to a man named Andrew Schulman in
8	connection with your work in this case, right?
9	A. And at other times.
10	Q. You are a collaborator with Mr. Schulman on a variety
11	of matters, right?
12	A. That sounds a little when you say it, Mr. Holley, it
13	sounds a little dangerous, but
14	Q. You're aware, are you not, sir, that even in the period
15	of 1995, 1996, Mr. Schulman wrote an entire book which is
16	about an inch and a half thick about undocumented APIs in
17	Windows 95?
18	A. The entire book is not about undocumented APIs. There
19	is only a portion of it that is, and it is much smaller than
20	undocumented DOS and undocumented Windows. In fact, that
21	was a vanishing publication niche in the undocumented API
22	book category. The demand for knowledge on undocumented
23	APIs diminished once not once, as Windows and Windows 95
24	became a more regularized operating system with the standard
25	development process and a standard and a full compliment

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of programming interfaces and services for programmers to
use. So before you may have needed Mr. Schulman's
undocumented DOS manual, but by the time Windows 95 came
around it was interesting but not very useful and certainly
not something that you would use to develop software.
Q. I think you said earlier that software developers could

7 use undocumented APIs if they saw it as a necessity. Did I 8 understand that correctly?

9 That was at a period in time when the world was simple, Α. 10 and you could see -- when the world was simpler -- it was 11 possible to understand the full consequence of what an API 12 did. By the time Windows 95 comes around it is virtually 13 impossible to understand all of the side effects of anything 14 but the simplest of APIs, and you would only be able to 15 understand that if the API had its origins in Windows 3.1 16 or, perish the thought, in DOS, where you had enough of the 17 bearings that you could bring forward from the internal design of those systems. 18

Once you are in Windows 95 it is a practical impossibility to understand all of the side affects of APIs of many of --

Q. Let's go back to this point that you made earlier, which is that once the documentation has been released to the developer community about an API, the horse is out of the barn, right? It is very difficult to stop people from

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1	using APIs that you have told them about; isn't that right?
2	A. This is
3	THE COURT: Let me understand what you're talking
4	about. You're talking about undocumented APIs that you told
5	people about?
6	MR. HOLLEY: That is a fair point. I was making a
7	transition, Your Honor.
8	BY MR. HOLLEY
9	Q. We're going back to the question of even if you wish
10	you hadn't done it, if you tell people about an API exposed
11	by the system, can you stop them from using it once they
12	know what it is?
13	A. Well, let's see. That is a complicated question, even
14	beyond the clarification. You can stop people from using an
15	API by breaking it, so you can make it not work, you can
16	remove it, you can tell people not to use it, so you have a
17	number of mechanisms that you can use to communicate to the
18	developer community on the issue of interfaces.
19	So, as I said, you can break it so it won't work. If a
20	developer tries to write a program and calls that API the
21	API says, sorry, out of order. Or you can write and try and
22	use the API and the API is not found or you get a
23	compilation error in the program. The developer can
24	instruct you not to use these APIs. We will not support
25	them. We have no intention of supporting them and they may

break in the future, so if they don't say out of order now
they will say that tomorrow.
Q. Let's talk about the specific case of the namespace
extension APIs which were documented in the M-6 beta of
Windows 95. In the case of those namespace extensions APIs,
they were not removed from the system, were they, sir?
A. The programming means to use them were removed, so that
when you wrote programs the programs would not compile
properly. The implementing functionality for the APIs
remained in place. That is a distinction here. Maybe I
should make a better statement.
There is the API definition, and that is the way that
the programmer is taught to write his program to say I want
to use this API, and that mechanism was removed. The
function of the code that would respond to that API, if the
programmer could write a program to use that API, would
still work.
Q. Well, actually, if you had the M-6 documentation you
knew how to call the API, right?
A. Let me make sure that I understand what you're asking.
You're asking if I had the M-7 beta now, and I used and I
was writing a piece of software, I would go to M-6 beta and
use the API definitions from the M-6 beta to run against the
M-7 beta?
Q. Sure. Why not? The information was given to you, and

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you just said the code stayed in the system, so the mere fact that somebody deleted that information from a beta does 3 not mean that you can't call the API; isn't that right? Well, I don't think that is -- there are a number of 4 Α. problems with that. Sorry. There are a number of problems with that. 6

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First of all, the documentation that was delivered with M-6 was insufficient and was to be supplemented, so you did not have enough information to develop a program, a production quality program. You could experiment perhaps, but you could not develop a fully functioning program in which you had confidence would operate properly.

The second part of the problem was that you had been told that you should not use the APIs because they may be broken in the next version of Windows or in the next beta, and their disappearance in M-7 confirmed the information that you were told when the APIs were pulled, that they were qone.

I quess somebody might have engaged in some reverse 19 20 engineering to determine just how far gone the APIs were, but the mechanisms to use them had been removed confirming 21 22 the information that you had been told by Microsoft from 23 your developer network contact folks and your development relations group of people. So it is hard to imagine why you 24 25 would do that.

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1 The third point is that the -- as you said, the software is changing between betas, naturally, as bugs are 2 3 being found and corrected, and if you use the header files, the definition files from the earlier Windows beta to build 4 a program that was going to run on the newer beta version of 5 Windows, you might be introducing other bugs because of the 6 7 changes that had happened between the M-6 and M-7 beta not 8 related to those interfaces. 9 Well, actually you testified to the opposite yesterday, Q. 10 sir, did you not? On slide 14 under the heading 11 applications using the namespace extensions could crash the 12 Windows 95 shell, the bullet point says that Microsoft 13 re-documented later in 1996 without changing the namespace extension APIs. So your testimony yesterday was that they 14 15 were never changed? 16 THE COURT: You can ask that question, but there 17 is no contradiction. That is a whole new question.

18 THE WITNESS: No. I am talking about what -- from 19 a developer's perspective I am looking at the information 20 that I have available to me, and the fact that they are republished, unchanged a year and how much was that -- 18 21 22 months, 18 months later -- does not change the fact that 23 they were removed and declared unavailable to me and evidently unavailable to me in the M-7 beta. 24 25 BY MR. HOLLEY

Q. Let's be very precise, sir. The APIs were never removed; isn't that right? They were never removed. The code stayed in the system and the interfaces were in the system and they could have been called if somebody wanted to do it?

A. The answer is no. That is just not correct. The implementations of the functionality described by the namespace remained in the system. That much is correct.

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9 However, the means to request those APIs had been 10 removed from the material that was provided to third party 11 independent software vendors. I am sure that inside 12 Microsoft there was a copy of the API definitions that 13 Microsoft developers continued to use during the time that 14 these APIs were removed from the material given to 15 independent software vendors, but the means available to the 16 programmers to request the -- iShellFolder, iShellView, 17 iShellBrowser functionality and the -- DLG and 18 iPersistFolder and -- were unavailable. If I wrote a 19 program that contained those statements I would get a 20 compilation error. Have you reviewed the trial testimony of Greg 21 Q. 22 Richardson in this case two weeks ago? 23 Α. I have not reviewed his direct testimony, no. 24 Well, he was asked the following questions and gave the Q. 25 following answer at page 677 of the transcript. Question,

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you're telling me that before October of 1994 when Novell 1 2 learned that Microsoft was not committing to support the 3 namespace extensions in the future, Novell had already written the code to implement all of these com interfaces? 4 5 Answer, so my question is that Steve Giles, in working with the documentation from Microsoft, had written our own file 6 7 dialogue that made use of the interfaces provided by 8 Microsoft necessary to interact with the namespace 9 extensions. Then the question was asked, we know that you 10 said -- we know that you can use this documentation to write 11 a file open browser that calls the Windows 95 Shell 12 extension APIs, because Steve Giles, according to you, did 13 it between June and October of 1994? Answer, so Steve made 14 use not only of this documentation, but also extensive 15 support. From my recollection of conversations with him, he 16 indicated that he needed significant support from Premiere 17 Support and through the Compuserve forum in order to complete the work that he did. Question, which he 18 19 apparently got, right, because he did it? Answer, correct.

20 So the testimony in this case, which maybe you didn't 21 know about until just now, is that Steve Giles from Novell 22 used the documentation in the M-6 beta to write a file open 23 dialogue that called the namespace extension APIs? 24 A. That is entirely consistent with what I have said. 25 Q. Your testimony, just so I have it clear, is that the

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1	and that he counted have been in the M. 7 heter
1	code that he wrote broke in the M-7 beta?
2	A. If he took his source code and recompiled it it would
3	not compile. That is all if he found a bug or wished to
4	change something in the source code that he had written to
5	those APIs, and he handed it back to the Microsoft compiler,
6	the Microsoft compiler would say, sorry, I don't know the
7	name. I don't know what you mean by iShellFolder. I don't
8	know what you mean by iShellBrowser. Error. No more
9	compilation. Your source code does not work. Go fix it.
10	Q. Did you confirm the testimony that you just gave by
11	looking at the source code for what Steve Giles wrote?
12	A. I did not. I can look at what I can look at what
13	developers did by taking the shell arch from M-6 and the
14	shell arch from M-7 using those interfaces and getting
15	compilation.
16	Q. Can you answer the question that I asked you, which is
17	did you confirm the testimony that you're giving now by
18	trying to compile the source code that Steve Giles wrote,
19	according to Mr. Richardson, between June of '94 and October
20	of '94, and running it on the M-7 beta of Windows 95?
21	A. No, I did not.
22	Q. In fact, you have never seen any source code for any
23	file open browser written by Steve Giles between June of
24	1994 and October of 1994.
25	Isn't that right, sir?
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1	A. That is correct. That was not part of the material
2	that I reviewed.
3	Q. But in your experience in the software industry,
4	sophisticated software companies like Novell keep the source
5	code of their product in source code control systems,
6	correct?
7	THE COURT: Hold on a second.
8	MR. SCHMIDTLEIN: Can we take a short break?
9	THE COURT: I'm sorry.
10	THE WITNESS: If you want to continue, and then
11	stop after this topic.
12	MR. HOLLEY: I am happy to.
13	THE COURT: Thank you very much.
14	THE WITNESS: I'm sorry.
15	THE COURT: No.
16	THE WITNESS: The answer is that it is customary
17	for software development companies in particular and
18	corporations that have IT organizations generally to make
19	use of source code control systems to maintain the source
20	code versions of the source code that they have
21	developed.
22	MR. HOLLEY: Thank you, sir.
23	THE COURT: Let's take a short break. I am ready
24	as soon as everybody else is.
25	(Recess)