THE COURT: Mr. Tulchin, do you have any idea yet? 1 2 It doesn't matter, but I would just like to tell the jury 3 when tomorrow we think we'll release them, 3:00 or 4:00. 4 You may not know yet. 5 MR. TULCHIN: We do have this deposition 6 transcript, Your Honor, for tomorrow. Those are the issues 7 in dispute. But my guess is -- we only have one live 8 witness. We're going to start with that. My guess is that 9 we'll be done about probably 1:30, and maybe 2:00. THE COURT: As opposed to 4:00? 10 MR. TULCHIN: As opposed to 4:00. That's my best 11 12 guess, Your Honor. It's hard to tell exactly, of course, 13 because we don't know the extent of cross. 14 (Jury present) 15 THE COURT: Despite the fact the witness has taken 16 off his sweater, I'm going to try to turn up the heat. 17 I'm not promising you this, but to the extent we 18 can project, we think tomorrow we'll probably be finished by 19 the usual time, 1:30 or 2:00, as opposed to 4:00. I can't 20 promise that, but just to let you know. The best estimate 21 we have is that it will be 1:30 or 2:00, as opposed to 4:00. 22 The other thing in terms of scheduling, we've got 23 to start thinking, and we can talk about it more tomorrow, about the week of December 12th, because we hope the 24 25 testimony will be finished on Monday or Tuesday of that

week, and then we have to talk about how long -- arguments 1 2 are going to be a little longer one day, if you want to 3 deliberate past 1:30 or 2:00. I know that may cause 4 hardship for people. We'll just work -- at least for some 5 people. So we'll just talk about that. I think the goal would be, subject to how long you 6 7 deliberate, you all take as long as you need, but ideally if we were finished by Thursday or Friday, we would be okay. 8 9 Please don't take that as an indication from me how long you 10 ought to deliberate. You may have to go into Monday. 11 Excuse me, Mr. Johnson. 12 MR. JOHNSON: May I proceed, Your Honor? 13 THE COURT: Absolutely. 14 MR. JOHNSON: Thank you so much. 15 CROSS-EXAMINATION 16 BY MR. JOHNSON: 17 Mr. Nakajima, I just introduced myself to you. My name Q 18 is Jeff Johnson. So I'm going to be asking some questions 19 of you this morning. 20 А Sure. 21 It is an honor and pleasure to meet you, sir. As I Q 22 told you before, I admire your work. 23 I would like to start actually where you started in the 24 beginning. You were asked some questions about APIs being 25 removed from things. And if you could find -- it should be

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1	at the bottom of your stack this demonstrative exhibit	
2	207.1.	
3	Do you have it there?	
4	A Yeah.	
5	Q And that piece of paper deals with the Google Wave API,	
6	right?	
7	A Uh-huh. (Affirmative)	
8	Q After that it says they're deprecated, correct? Do you	
9	see that, sir?	
10	A Yes.	
11	Q Could you explain to the jury what it means when an API	
12	is deprecated?	
13	A It means they removed it or they no longer support it.	
14	Q But that means that it's an API that's in an existing	
15	system, right?	
16	A Uh-huh. (Affirmative)	
17	Q Something that they sold, right?	
18	A Sold I mean Google is typically given away.	
19	Q You're right. You're absolutely right. It is free,	
20	 A Uh-huh. (Affirmative) Q Something that they sold, right? A Sold I mean Google is typically given away. Q You're right. You're absolutely right. It is free, but it's something that was in a system that people were using. In this case it's called the Google Wave? A Yes. Q So this is not a beta, this is actually the wave is something that was out there that you could use at the time, and one of the things you could use in the wave technology 	
21	using. In this case it's called the Google Wave?	
22	A Yes.	
23	Q So this is not a beta, this is actually the wave is	
24	something that was out there that you could use at the time,	
25	and one of the things you could use in the wave technology	

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1	was this Google Wave API, right?	
2	A Yes, but Google always called everything beta.	
3	Q Well, they may call it beta, but it's out in the	
4	public, right?	
5	A Yes.	
6	Q You are using it?	
7	A Uh-huh. (Affirmative)	
8	Q It's not just being given to ISVs?	
9	A Right, it's public.	
10	Q It's public?	
11	A Uh-huh. (Affirmative)	
12	Q So people are using this thing and have been using this	
13	thing for some time, correct?	
14	A Yes.	
15	Q And so what Google was actually announcing here is they	
16	have got an API called the Goggle Wave API and they are	
17	saying, look, going forward, we don't want to support this	
18	API anymore, right?	
19	A Uh-huh. (Affirmative)	
20	Q In fact, to ensure to ensure that no one is hurt by	
21	this, they say if you look right underneath the Google	
22	Wave API where it says important do you see that? It's	
23	got a paragraph there after the word important.	
24	A Oh, yes, important.	
25	Q It says, the wave API will remain in service as long as	

1 Goggle Wave continues to run, correct?

2 A Yes.

3	Q So this wasn't taking away this API, this was just		
4	saying, look, down the road we're not going to be supporting		
5	this. But as long as Goggle Wave is out in the public and		
6	is being used, that API will continue to run, correct, sir?		
7	A It doesn't say as long as it's being used. It simply		
8	says as long as Google Wave continues to run, meaning Google		
9	may choose to stop running it at any time.		
10	Q Sure. They can choose to stop, but they tell you		
11	they are telling you in advance here that this wave API will		
12	remain in service as long as Google Wave continues to run.		
13	So as long as that is a public beta out there, as you call		
14	them, that people were using, the API isn't going to be		
15	yanked out until they stop running wave, right?		
16	A Right. If Google chooses to stop providing wave		
17	service on a certain date, then all the application programs		
18	that rely on the wave will stop running at the same time.		
19	Q So when you're deprecating an API, you are just giving		
20	notice to the public, or to ISVs as well, that, look, we're		
21	not going to be supporting this one anymore, get your house		
22	in order, right?		
23	A Yes.		
24	Q And, again, you also talk about another one, which was		

25 the Apple one, the Get Device ID, right?

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1	A Uh-huh. (Affirmative)	
2	Q And that was an existing system that was in the public,	
3	right?	
4	A Yes.	
5	Q And so this was not a beta that was being used by ISVs,	
6	this was an existing product?	
7	A Yes.	
8	Q And so what Apple was saying was we're going to get rid	
9	of this particular device idea API, and the reason was there	
10	were some privacy issues, right?	
11	A Uh-huh. (Affirmative)	
12	Q So this is very different both of these are very	
13	different from yanking APIs from a beta that developers	
14	ISVs are writing to, right?	
15	A I don't understand.	
16	Q That's all right, sir. Thank you. I think you've been	
17	very helpful.	
18	MR. HOLLEY: I move to strike the commentary.	
19	THE COURT: The commentary is stricken, but the	
20	questions and answers stand.	
21	BY MR. JOHNSON:	
22	Q You had a picture up there of the integrated GPS and	
23	your separate one in your own car?	
24	A Yeah.	
25	Q I just have to ask here, you suggested that if the	

I	Case 2:04-cv-01045-JFM Document 458 Filed 01/24/12 Page 7 of 69 3785	
1	integrated GPS failed, that the car wouldn't run. Is that	
2	really true, sir? Wouldn't it just mean	
3	A The car may still run, but the certain function of the	
4	car will not be accessible.	
5	Q Yes. In essence, that window, the integrated window,	
6	that might break down?	
7	A Yes.	
8	Q But the car is still going to run?	
9	A Hopefully, yes.	
10	Q And to draw the analogy a little further, if you have a	
11	bad namespace extension in the Windows Explorer and it	
12	caused it to and it went fizz, that just means the window	
13	Explorer would stop working, right? It would go down. It	
14	wouldn't necessarily mean that the entire system would go	
15	down, correct?	
16	A Actually in the Windows 95 case, the entire system goes	
17	down.	
18	Q So you are saying that more than the Explorer itself	
19	would be lost?	
20	A Yes, because the Explorer and the desktop and start	
21	menu were all running in the same process in the Windows 95.	
22	We fixed that in NT. But at the time of the Windows 95,	
23	everything was in the same kitchen. So if fire happens,	
24	everything stops.	
25	Q There was some direct examination where Mr. Holley was	

1 talking about the fact, and you agreed with him, that there 2 was no limit on the number of namespaces that application 3 developers could create, right?

- 4 A Yes.
- 5 Q And --
- 6 A No limit.
- 7 Q No limit?

8 A Yeah. Sometimes there's a problem with a yes and no9 answer.

10 But that's just as true today as it was then, right? Q 11 The number of extensions, no. Actually this is one of А 12 the reasons why Windows becomes slower once you have it. I 13 think everybody experienced this, and this is actually 14 caused by -- not the namespace extension, but many extension 15 mechanism. It makes the system slower, slower every day --16 not every day, every time you install the applications. 17 My more limited point is that the fact that you can 0 18 have unlimited namespace extensions is as true today as it 19 was when you first introduced the product in 1995, correct? 20 I don't know if they still support namespace extensions Α 21 or not. I really don't. 22 Q I will represent to you that Mr. Muglia said they did? 23 Α Today?

24 Q Today.

25 A I think he was still -- he was in Microsoft recently,

1	but I left in 2000. So I don't know what they are doing	
2	these days, and actually I no longer use Windows. I'm a Mac	
3	user. Sorry. I'm Windows 95 using macro.	
4	Q But let me do it this way, then. To the extent that	
5	the namespace extensions continued to be present and your	
6	invention continued to be present in Windows 95 and later	
7	operating systems, there was no limit to the number of	
8	namespaces application developers could create, right?	
9	A According to you or Bob Muglia, yes.	
10	Q And just to be clear, you didn't just use the namespace	
11	extensions for e-mail, right? The namespace extensions were	
12	used for lots of things that you added to Windows 95, right?	
13	A Right. It's up to ISVs, not me. I simply provide a	
14	mechanism.	
15	Q You provided the mechanism and, for instance, Capone,	
16	the e-mail client, was one of the things that was being	
17	added using the namespace extensions, right?	
18	A Right. Just like Toyota, right, provides a mechanism	
19	for GPS system to plug in, if Toyota somebody could	
20	create some game machine so you can play a game while you're	
21	driving. It's possible.	
22	Q And you also added you didn't add, but you provided	
23	the mechanism, the namespace extensions that Marvel used and	
24	integrated into the system, right?	
25	A Yes. I was helping Marvel to use the namespace	
I		

1 extension.

And later you helped -- with your namespace extensions, 2 Q 3 you helped Athena integrate into Windows 95, right? 4 Α Right. So this is the place where my memory becomes 5 blurred. So I was helping -- actually I was promoting a lot 6 of people inside Microsoft to use namespace extensions 7 because that was my baby. So the Capone, the e-mail, the Marvel, it's like the AOL client, Microsoft's version, and 8 also Athena, the e-mail client, I was promoting and helping 9 10 them to integrate. But I don't remember which one was 11 actually shipped because of this decision and because I was simply technically helping them. So I knew that it was 12 13 running on the machine, but I don't really remember which 14 one was really shipped with Windows 95, or even after that. 15 But at least you do remember that all of those 0 16 applications were running on Windows 95 integrated with 17 Windows 95 using your namespace extensions, right? 18 Right. I was helping them, but the finish of Windows А 19 95, that could just be a development machine. I really 20 don't know which one was shipped. 21 So it wasn't just the e-mail, right? We can agree on Q 22 that? 23 А Right. I quess. 24 0 In fact, the namespace extensions were also used within 25 Windows 95 to provide objects like Recycle Bin, Network

1 Neighborhood, and My Briefcase, right?

2	A Yes. You are smart. I am surprised. True. True.		
3	Yes, I was amazed. Nobody actually mentioned that because I		
4	came up with the namespace extension first because I was in		
5	charge of both integrating multiple views, like a file		
6	manager, program manager, control manager. So I needed to		
7	create this kind of mechanism for myself to integrate. So,		
8	as I said, Recycle Bin and everything was using that		
9	mechanism. Yes, you are absolutely right.		
10	Q That certainly didn't change in Windows 95. We know		
11	that that stuff is all using the namespace extensions,		
12	right?		
13	A Yes. Yes.		
14	Q Now there was some direct testimony about whether there		
15	were maybe too many cooks in the kitchen. So I want to talk		
16	about that a little bit. And just to be clear, the only		
17	custom containers that would be added to the Explorer by		
18	third-party ISVs would be applications that the user chose		
19	to put on his machine, right?		
20	A Yes.		
21	Q So if there were too many cooks in the kitchen, you		
22	could ask some to leave, right?		
23	A Right.		
24	Q So		
25	THE COURT: The diner could, the person who runs		

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1	the restaurant.		
2	THE WITNESS: But the issue is, right, you need to		
3	remove the entire application from a system. You cannot		
4	just remove the cook from the kitchen but still have a		
5	dessert. You don't have that option.		
6	BY MR. JOHNSON:		
7	Q Yes, I understand. The pastry chef has to go		
8	completely?		
9	A Right.		
10	Q He can no longer be there. But if you don't like him		
11	and you don't like what he offers, the user can kick him out		
12	of the kitchen, right?		
13	A Yes. Right. Yes.		
14	Q So the user doesn't have to put up with any custom		
15	containers it doesn't like?		
16	A Right. You're right.		
17	Q If that chef does a bad job and, in fact, makes you		
18	sick, you are certainly going to remove that chef from the		
19	kitchen, right?		
20	A Yes, but sometimes you cannot tell who caused that		
21	problem because the E.coli virus that the chef brought in by		
22	actually contaminating the steak. You can get sick eating		
23	the steak, but what are you going to do, remove the steak		
24	from the steakhouse?		
25	Q Well, you can certainly remove whatever it is you think		

1 is causing the problem?

2 A But the problem is it's very hard to tell which caused3 the problem.

Q If it's the operating system, I guess you could call Microsoft about it. But, in fact, what people actually do is they call the computer company, right?

7 A Yeah. So again, as I said, right, typically after 8 owning a Windows machine for six months, eight months, it 9 becomes slower and slower. And this is typically caused by 10 some application that was installed. But it's hard to tell 11 which application caused the problem. Even I cannot tell.

12 So if you bring in some consulting company, then they 13 need to spend a lot of time sometimes on one application and 14 test it for four months and install. So it's a hard 15 problem.

16 Q But let's go back to that Cairo team. And you chose to 17 leave the Cairo team, right?

18 A Yes.

19 Q You were very frustrated with that group, right?

- 20 A Yeah.
- 21 Q Is that a yes?

22 A Yes. Yes.

23 Q I'm sorry. Thank you.

24 You felt -- you were frustrated because the Cairo folks25 were just meeting after meeting?

1	A Yes.		
2	Q You were the type of engineer who likes to solve		
3	problems and write code, correct?		
4	A Right. I call it the practical engineer.		
5	Q And I think I mean you gave a great analogy to us at		
6	your deposition. I just wanted to state it and see if you		
7	still agree with it. If someone had a leak in their roof, I		
8	would rather go up and fix it right away. But the Cairo		
9	people just discuss, and then months later they would say,		
10	okay, you need to rebuild the house.		
11	Was that a good analogy of what the Cairo people were		
12	all about?		
13	A Yeah. I'm talking about the mentality, yes, their		
14	approach was always and that they debate what kind of		
15	house you want to have.		
16	Q So you had had enough of that and you moved over to the		
17	Chicago team, right?		
18	A Yes.		
19	Q And you were responsible for all the shell extensions,		
20	not just the namespace extensions, right?		
21	A All the extensions, yes.		
22	Q Let me show you what has been marked Plaintiff's		
23	Exhibit 364.		
24	Mr. Nakajima, this is Plaintiff's Exhibit 364. I feel		
25	fairly certain you recognize this document. This is your		

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1	patent, right?		
2	A Yes.		
3	Q And this is your patent on the shell extensions, right?		
4	A Yes.		
5	Q And you are listed as the first named inventor on this		
6	patent, right?		
7	A Yes.		
8	Q And this patent, the application, the application was		
9	actually filed December 13th, 1994. Do you see that, sir?		
10	A File date, I don't see that. I see the '98, but		
11	Q If you just turn around and look at the screen in front		
12	of you.		
13	A Oh, okay. Yes, filed December 13th. Yes. Okay, I see		
14	that.		
15	Q So that was long before Windows 95 came out, right?		
16	A Uh-huh. Yes.		
17	Q Now if you turn to the abstract, which is on the first		
18	page there.		
19	MR. JOHNSON: If you could just bring that up,		
20	Mr. Goldberg.		
21	BY MR. JOHNSON:		
22	Q And it states at the top, an operating system provides		
23	extensions through which application developers may extend		
24	the capabilities of a shell of the operating system.		
25	And that's what the shell extensions were all about,		

1	
	right?
-	I I GIIC.

2 A Yes.

3 And if we look down a little further in the abstract, 0 4 it's actually the next to the last sentence, because the 5 first part talks about some of your other extensions, if we 6 go down to where it says, developers may also extend the 7 functionality provided by the shell of the operating system by adding their own custom namespaces to the integrated 8 9 system namespace. 10 That's a pretty simple characterization of what the 11 namespaces do, right? 12 А Yes. 13 Then the last sentence states, the mechanism provided 0 14 by the operating system to add such a namespace is 15 polymorphic and transparent to users. 16 Can you explain to the jury what is meant by the fact 17 that these custom namespaces are polymorphic and transparent 18 to users? 19 So let's say in the example of this steak restaurant, А 20 right, we added a creme brulee to the menu by third-party 21 extension, but from the user's -- the customer's point of 2.2 view, it's simply an item in the menu. So it looks like it's fully integrated. It's not a separate menu it came 23 24 from, just the one menu.

25

So, right, I think it's -- if we are talking to the

user, it's more -- integrated is a better term than 1 2 polymorphic or transparent. 3 But in terms of -- and I appreciate the analogies 0 4 because I think that helps us a lot. But in terms of the 5 actual user interface, the basic point, is regardless of the 6 data type, the user interface is consistent for the user, 7 right? I mean in a true sense more this sentence is 8 Yes. А 9 talking about the left pane of the tree, not the right pane. 10 If you go, then, to the background of the invention --0 11 and I'm sorry to say that the pages aren't numbered, but if 12 you go back to and you go through the figures, pass by the 13 figures there, and go to the first page of the text, which 14 is -- actually patents have columns. This is column one. 15 If you can get there. 16 Yeah. А 17 MR. JOHNSON: Can you bring that you up, 18 Mr. Goldberg. There you go. BY MR. JOHNSON: 19 20 Background of the invention. Do you see that, sir? 0 21 А Yes. 22 Q It starts off, conventional operating systems include 23 shells that provide user interfaces. Unfortunately, such 24 shells are often limited in their capabilities and in the 25 flexibility of options that they provide to an applications

1 developer.

2 So this is part of the background of why you did what 3 you did, right?

4 A Uh-huh, yes.

Q And if we go down again a couple of paragraphs later where it says, the shells -- go to the last sentence of that paragraph, it states, the shells of the conventional operating systems are further limited in that they only provide access to objects in the file system namespaces and provide no easy mechanism for integrating additional namespaces into the system.

12 That's talking about the namespace extensions, right?13 A Yes.

14 Q So what you are saying here, in conventional operating 15 systems, you could only get to Recycle Bin, Briefcase and 16 Network Neighborhood, an application developer couldn't come 17 in and create their own custom namespace, right?

18 A Right.

19 Q Then if we turn over to column four, which is on the 20 next page, which provides a detailed description of the 21 invention.

22 MR. JOHNSON: If you can bring that up,23 Mr. Goldberg.

24 BY MR. JOHNSON:

25 Q Specifically to the last sentence of the first

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1	paragraph, it states, in addition, the preferred embodiment			
2	of the present invention facilitates the addition of new			
3	namespaces to a namespace that is visible through a browsing			
4	system-provided tool, known as the explorer. These shell			
5	extensions allow developers to customize to better suit the			
6	needs of their users.			
7	So the purpose of this invention was to allow			
8	developers to customize their applications to better suit			
9	the needs of their users, right?			
10	A Not exactly. It's not customizing the application.			
11	It's more about customizing the Explorer, or actually more			
12	precisely speaking, they are providing the custom folder to			
13	the extension so that those objects or items provided by			
14	the application are more looks and behaves like they're			
15	integrated.			
16	Q Perhaps my question was poorly worded, but let me try			
17	it this way. What you wanted was was for developers to be			
18	able to customize provide custom extensions to better			
19	suit the needs of their users, right?			
20	A Okay, yes. It's a bit ambiguous in a sense, but yes.			
21	Q Now you also provided a documentation in this patent			
22	application that explained in detail how these shell			
23	extensions would work, right?			
24	A The documentation meaning the SDK?			
25	Q Well, it's kind of like what's in the SDK. If you			

1	would turn forward in the patent, and at some point when you
2	get into the stuff that was added as support for your
3	patent, the pages actually start being numbered, and this is
4	page 54.
5	MR. JOHNSON: There you go.
6	BY MR. JOHNSON:
7	Q Fifty-four. Do you see that there?
8	A Yeah.
9	Q And if you look forward, from 54 forward, you see many,
10	many pages of a lot of computer speak that I certainly don't
11	understand, but this is the documentation, is it not, for
12	the use of the shell extensions?
13	A Right. This is the yeah, this is the documentation
14	of the shell extension and especially this portion of the
15	namespace extension.
16	Q This portion is entirely about the namespace
17	extensions, right?
18	A Yes.
19	Q And can you tell me, is this documentation provided in
20	your patent application more extensive than the
21	documentation provided to ISVs in June of 1994 M6 beta
22	release? Again, you may not know.
23	A Yeah, I don't know. I wasn't I was not in charge of
24	either writing the patent or either writing the
25	documentation. I simply provided header files. And

somebody else who is more proficient in writing the API in
 plain English, they did that job.

3 Q But you did review the patent application before it was 4 filed, right?

5 A Not word by word.

6 Just to be clear, if we go back to that page 54, then, Q 7 the English language stuff that explains these namespace 8 extensions would have been written by someone else, not you? 9 So word by word, right. I mean the process of А Yeah. 10 building this kind of a document either as SDK document or 11 patent document, I am the developer, so I write software. 12 So software consists of header files. I put some comments 13 Then somebody in charge of the documentation looked there. 14 at the header files and started creating these kinds of documents, that person asked me some questions. So I 15 16 Sometimes that person cut and paste my answer answered. 17 directly to this kind of document. Sometimes he edit. So 18 it's really up to that person how to write it.

So if my question -- if your question is this your statement, then it's no, but maybe based on my works. Q Okay. And just -- I guess my probably inarticulate question was this documentation provided in the patent application is more than just the machine header file that was provided in the M6 beta, right?

25

A Yeah. No, I'm sorry. More than the header file?

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1	Q Yes.
2	A But I'm not sure if this is more than the entire
3	documentation, the SDK.
4	Q Understood. I'm talking only about it's more than the
5	header files, right?
6	A More than the header files.
7	Q So it would be fair to say that at some point prior to
8	December 13th, 1994, someone with your help had prepared
9	documentation about how to use the namespace extensions,
10	right?
11	A Yes.
12	Q I think I understood from your testimony that at least
13	initially your job was to kind of bridge the gap between
14	Chicago and Cairo, right?
15	A My job?
16	THE COURT: You mean when he worked for Cairo?
17	MR. JOHNSON: Actually when he went to Chicago and
18	left Cairo.
19	THE COURT: Okay.
20	BY MR. JOHNSON:
21	Q Your job was to do what the Cairo guys were just
22	thinking about and having meetings?
23	A More precisely speaking, the Chicago team was in charge
24	of bridging the gap between Windows 3.1 and Cairo, right.

25 The Cairo's future, Windows 3.1, was already in the market.

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1	So they were in charge of bridging. But management didn't
2	specify exactly what. And because it was such an underdog,
3	sort of it was sort of out of the radar screen of Bill
4	Gates. Sort of we had freedom to do whatever we wanted to
5	do. Then I moved from the Cairo team to the Chicago team
6	and discovered that instead of spending time in the
7	meetings, they write code, and they have a completely
8	freedom because it's such a small product.
9	So there was no order from management to say Chicago
10	should look and behave more like a Cairo. Nobody asked
11	them. That was my decision.
12	Q But that's what you did?
13	A Yes, that's what I did. But I don't call that that was
14	a job. My job is typically coming from the boss.
15	Q At some point your team started to believe that Cairo
16	was never going to ship, right?
17	A I believed it from the beginning.
18	Q The Cairo team was never going to rebuild the house,
19	right?
20	A Right. Right. Yeah.
21	THE COURT: Whichever house it might have been.
22	BY MR. JOHNSON:
23	Q Now just to segue a little bit, after Windows 95
24	shipped, you started working on Microsoft's web browser,
25	Internet Explorer, right?

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1	A Yes.
2	Q And you worked on Internet Explorer for about two
3	years, 1995 through 1997?
4	A Yes.
5	Q And as part of your responsibilities, you integrated
6	Internet Explorer into Windows using the namespace
7	extensions, right?
8	A Yes. Yes. You're right, yes.
9	Q So that's still another way that we can use the
10	namespace extensions, right?
11	A Yes. Because that was my baby, so I wanted to use it,
12	yes.
13	Q Let's go back to your work on Chicago. Did you
14	understand that there was a decision made to document the
15	shell extensions, including the namespace extensions, to
16	ISVs in the fall of 1993?
17	A Right. I don't remember the timing, but I do remember
18	that at some point we decided to publish APIs to ISVs in a
19	certain version of beta. That's the only thing I remember.
20	But, unfortunately, somebody already told me that was in M6.
21	So even though that wasn't in my memory, I know that fact.
22	Q Do you happen to know who made that decision?
23	A Who made that decision? No, not exactly, but I wanted
24	to publish because so my intent is I develop something
25	and I want to publish. I want to make a lot of people using

it, the users, ISVs. So I always pushed to that direction. 1 2 And somebody in the higher management make a decision to say 3 we're going to publish this or we're going to not publish 4 this. 5 0 Do you understand what it means when they say -- or 6 someone says we're going to A-list these APIs? Do you understand the term A-list? 7 They didn't use the A-list, but that term came 8 А Yeah. 9 later in time to distinguish between sort of the public 10 official API, which is A-list, versus sort of the 11 unofficial, not supported, if you use it and we may not 12 support it in the future version, which is the B-list. 13 But A-list means fully published, fully supported, 0 14 right? 15 Right, and implies that -- because Microsoft had a А 16 policy to say once we publish some APIs, we keep that in the 17 future version of Windows. That was not a contract, but it 18 was more like a company policy. 19 That's important so that applications built to 0 Sure. 20 use those APIs will continue to run on future versions of 21 Windows, right? 22 А Right. That was really beneficial not only to ISVs but 23 to Microsoft as well because once the user started in 24 Windows machines, it's harder and harder to switch to other 25 operating systems because the application runs continuously.

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1	Q Do you recall that there came a time when you were
2	essentially tasked with making sure that the shell extension
3	APIs were going to be compatible with potential future
4	operating systems that used OLE?
5	A Yes. Yeah, I paid attention to OLE. So there so
6	the OLE was about to become a part of our system. It was in
7	the transition time. So I needed to make sure that it's
8	compatible. Unlike Cairo was still a story on the board.
9	Q Sir, in order to achieve compatibility with whatever
10	direction they were going to go in the future and to meet
11	that four megabyte limit of memory in Windows 95, you
12	created a lightweight OLE implementation for the namespace
13	extensions, right?
14	A Not only for the namespace extensions, but all
15	extensions.
16	Q All extensions?
17	A Yes.
18	Q That was your creation, that lightweight
	implementation, right?
20	A Yes.
21	Q Because a full OLE implementation of those shell
22	extensions would have been really, really slow and require a
23	lot of memory, right?
23 24 25	A Yes.
25	A Yes. Q And part of that limitation meant that you needed to

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1	make the shell extensions run in process, right?
2	A Yes.
3	Q You didn't have enough memory to separate the processes
4	in Windows 95, right?
5	A Right.
6	Q And it's true, is it not, that all the shell
7	extensions, including the namespace extensions, run in
8	process?
9	A Yes.
10	Q Do you recall, sir, that Mr. Silverberg, who was the
11	head of the Chicago development you remember
12	Mr. Silverberg, don't you?
13	A Yes. Yeah.
14	Q Do you recall that he was very proud of your work, of
15	the lightweight OLE implementation for these extensions?
16	A Yeah, I remember that. That was a good memory. I got
17	a bonus.
18	THE COURT: What did you say?
19	THE WITNESS: I got a bonus.
20	MR. JOHNSON: Could I have Plaintiff's Exhibit
21	129, please.
22	BY MR. JOHNSON:
23	Q I'm going to show you a couple of documents here more
24	than anything else just to give time frames to some of the
25	things we're talking about here.

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1	This is Plaintiff's Exhibit 129. We see at the top of
2	the page, this is an e-mail from Mr. Silverberg to you and a
3	number of other people, including somebody by the alias
4	Kurte?
5	A Uh-huh. (Affirmative)
6	Q Can you tell us who Kurte was?
7	A Kurt Eckhardt. I don't remember how to spell his last
8	name. He was my boss. He was the department manager of the
9	shell team.
10	Q If you look down in the first paragraph, Mr. Silverberg
11	says how very proud he is of the way the team has
12	architected the extension mechanism to use OLE interfaces
13	but have a lightweight implementation underneath.
14	Do you see that, sir?
15	A Uh-huh, yes.
16	Q That was your proud moment and your bonus?
17	A Yes.
18	Q I would like to direct your attention a little further
19	down in the e-mail from your boss, Mr. Echardt, to you dated
20	January 20th, 1994, and there's some questions being asked
21	of Mr. Echardt about what points ISVs will be able to learn
22	about what the shell extensions can do and how. And
23	Mr. Silverberg was apparently interested in when can we show
24	them a prototype, when can we tell them, and finally when
25	will they actually be able to do the coding.

1	Mr. Echardt says that the Windows 95 team if you
2	look down at number two there
3	MR. JOHNSON: Could we highlight that,
4	Mr. Goldberg? Down near the bottom. There we go.
5	BY MR. JOHNSON:
6	Q It states, we basically have it done now, although we
7	will probably tweak some of the interfaces to make them work
8	better for us in our current extensions.
9	So is that consistent with your recollection that by
10	early 1994 these extensions were basically done?
11	A The definition of done meaning, right, the mechanism is
12	in place, it is working, but it's in the beta, so it may
13	change. I mean that tweak meaning we may still need to
14	adjust, make some changes before we release the final
15	product.
16	Q But, of course, the extensions never did change, did
17	they?
18	A I don't remember. But the things change. This is
19	January of '94. So it is quite possible that we made some
20	changes. But, again, I don't remember that.
21	Q You don't remember any, right?
22	A No. No, I don't remember. I mean it's 17 years ago,
23	or 16.
24	Q Longer than that, sir.
25	A Oh, okay.

Mr. Echardt talks about the fact that we are trying to 1 Q 2 minimize how much time was spent now on documenting these so 3 as to make our M6 milestone. Do you see that, sir? It's highlighted there in front 4 5 of you. 6 А Yes. 7 Q And you don't really like to write a lot of detailed 8 documentation, right? 9 Right. Yes, I really remember that. Some developers, А 10 when they develop something, some mechanism, they at least 11 make a header file. Some developers are willing to spend 12 extra time to document in the way so that the third party 13 can develop. So the only thing sort of the publishing 14 division needs to do is just spell checking, but I was not interested in that work. 15 16 THE COURT: Spending a lot of time writing keeps 17 you from going to meetings and documenting. 18 THE WITNESS: Documenting was not my favorite. 19 BY MR. JOHNSON: 20 You preferred to write code, right? 0 21 А Yes. I preferred, yes. Being here is not bad, but not 22 every day. 23 Q Mr. Nakajima --24 THE COURT: That's a sound point actually, being 25 here as long as we have.

1	BY MR. JOHNSON:
2	Q Mr. Nakajima, let me show you what's been marked
3	Plaintiff's Exhibit 128. This e-mail chain, Mr. Nakajima,
4	is Mr. Belifiore's response to the e-mail sent by
5	Mr. Silverberg that we just reviewed a moment ago. Do you
6	recall who Mr. Belfiore was?
7	A Uh-huh. (Affirmative) He was a program manager, head
8	of program management.
9	Q In fact, I notice that he was actually listed as one of
10	the inventors on the shell extensions?
11	A Uh-huh. (Affirmative)
12	Q I was wondering if you could tell me what his
13	involvement was, if any, on the shell extensions.
14	A So the building of the software like Windows 95 is a
15	team effort, right. I mean I write code, and Joe was more
16	in charge of the user interface designs and everything. So
17	whenever you file a patent, you get special cubes as a prize
18	from the company to say you got a cube. So I end up having
19	20 cubes in my office I was so proud of. So I could
20	actually could have filed a patent just by myself because
21	I developed it. But do you want to work with that kind of
22	person? It's a team effort. So it is more appropriate to
23	bring in Joe to the name.
24	THE COURT: Actually I think there was somebody
25	else, too, wasn't there?

1MR. JOHNSON: There is, Your Honor. There are2several people.

THE COURT: All of the State of Washington. 3 4 MR. JOHNSON: Yes. 5 THE WITNESS: Right. So they helped in some 6 degree, right. Joe's involvement in the code itself is 7 minimum, but, again, he was in charge of the user interface, 8 the user experience, so there is no reason to eliminate him 9 from the patent application. So he got a cube. 10 BY MR. JOHNSON: 11 Q Thank you, Mr. Nakajima. 12 If you look at the top paragraph of Mr. Belfiore's 13 e-mail, he talks about you, he's talking about you, and he 14 says, you are currently maintaining a slim document, and a 15 bunch of sample code. And it says, this minimal 16 documentation is needed by the mail team, Elseware for fonts 17 folders, et cetera. It's enough doc for people to 18 understand what we're doing and write some code. 19 Now this slim doc that we're talking about here, that 20 is not a document that is self-explanatory, right? 21 It depends. So it's not nicely written. А Let's put it this way, it doesn't describe the APIs in 22 Q 23 detail using the English language, right?

A Okay, so simply put this way, the minimum documentationis actually just a header file, not documentation, just a

header file. And if the API was designed well, I hope the idea is they did a good job, then a smart developer can actually write extensions with no document, just a header file.

5 But sometimes to write API itself, the API defined in 6 the header file is not clear, like the API's name is not 7 great, then we need to add some documentation to describe 8 some details. So the degree of details expand the 9 reachabilities. So if it's a well documented API, then the 10 developer can just write extensions without asking any 11 questions. If this is the only header file, it's harder, 12 they need to investigate, they need to ask a lot of 13 questions.

The slim document, again, maybe it's enough for most of the people, but they may need to ask some questions.
Q That's what I'm getting at. If someone reads the header file, for example, an ISV, they are going to need to ask some questions, right?

19 A If it's only from the header file, yes, they need to 20 ask some questions. So, for example, this mail team was 21 able to ask some questions to me directly.

22 Q They could speak to you directly, right?

23 A Uh-huh. (Affirmative)

24 Q And the mail team being talked about there was Capone, 25 right? 1 A Yes.

2 Q And do you recall who Elseware was?

3 A I don't remember, but according to this it seems like
4 we had some third party helping building a fonts folder
5 extension.

6 Q So the Elseware company was also using the namespace7 extensions to integrate into Windows 95, right?

8 A Seems like, yes.

9 Q So we've just found another way that you can use your 10 namespace extensions, right?

11 A Another way, yeah. Yes.

12 Of course, you can't respond to all the developers out 0 13 there that would have questions about these namespace 14 extensions. So like the Capone team could come talk to you, 15 but all these other ISVs, they can't come talk to, right? 16 Yeah, it was -- yes, it was -- again, I don't like to А 17 respond to e-mail either. So the number of people I can 18 support is limited. This is why we have a developer 19 relationship group who document and also answer questions 20 from ISVs.

Q Do you recall that there was also a Premier Support group where you could call in to Microsoft and get developers support with respect to APIs and Windows operating systems?

25

A No, I don't remember that name, but I remember that

there were a group of people who are in charge of helping 1 2 ISVs to build applications, including extensions. 3 I think as we've discussed earlier, Capone was an 0 4 e-mail application, right? 5 Α Yes. 6 And Microsoft had a strict rule that if its internal Q 7 applications were using certain APIs, then those APIs must 8 be published to ISVs as well, correct? 9 Was a strict rule? I don't remember, but I think that А 10 was a policy. Again, it's a -- I don't remember who said 11 that, but I think it was -- I think -- I don't remember the 12 timing, but once we started reading the market, ISVs started 13 complaining that Office team had some unfair advantage. So 14 this kind of policy became a standard at some point. I 15 don't remember exactly when. 16 Let me refer to -- you recall having your deposition 0 17 taken, right? 18 Uh-huh. (Affirmative) А 19 In this case? 0 20 А Okay. Yeah. 21 Q And Mr. Jacobs came and asked you questions. Do you 22 recall that? 23 А Not in detail, but I remember that meeting. Let me just turn briefly to your deposition in this 24 0 25 case taken in February of 2009. I would like to refer your

attention to page 52, line 19, through 53, line 3. 1 2 MR. JOHNSON: Mr. Goldberg, if you could bring 3 that up. 4 BY MR. JOHNSON: 5 And the question was asked of you at that deposition, 0 6 do you recall what some of those political issues were that 7 you referred to? Your answer was, that the one thing I 8 clearly remember was the Capone was e-mail -- the exchange 9 team was the application work, not the part of the operating 10 Therefore, if we offer API like a namespace system. 11 extension to internal application team, we are supposed to 12 publish that API to a third party to be fair, right? That 13 was a strict rule inside Microsoft. 14 So does that refresh your recollection that, in fact, 15 you understood that in order to be fair, it was a strict 16 rule within Microsoft that if Microsoft's applications were 17 using these APIs, they had to be published, right? 18 It seems like I used that word strict rule, yeah. Α Yes. 19 I would use more general term policy, but it seems like that 20 was my word. 21 Yes. That's what you believed, right? Q 22 А Right. I mean it's fair. 23 Q Yes, it is fair. I agree with you, sir, very much. 24 THE COURT: Yes, it's struck. 25 The roll of the eyes if you have an objection.

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1	MR. JOHNSON: I want to get to that point, Your
2	Honor, where you will issue a ruling by me just rolling my
3	eyes.
4	BY MR. JOHNSON:
5	Q If you go back to Mr. Belfiore's
6	THE COURT: I was looking down looking for an
7	objection.
8	BY MR. JOHNSON:
9	Q e-mail in the middle of the page
10	MR. JOHNSON: Can we bring that back up?
11	BY MR. JOHNSON:
12	Q and there is an answer there with the three
13	asterisks, and it says from Mr. Belifiore, and it says,
14	we have sample code now and I think the API is pretty
15	settled. And then Kurt which I assume is Mr. Echardt
16	question mark.
17	Do you see that there?
18	A Uh-huh. (Affirmative)
19	Q You would agree with me that settled means that the
20	chance of changing the API is small before the release,
21	correct?
22	A Uh-huh, yes.
23	Q Is that a yes, sir?
24	A Yes, or that the change might still come, but the
25	change will be small.
	I I

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1	Q All these e-mails talk about the release that's coming
2	out with the M6 milestone, which is the beta release that
3	we've talked about. Do you happen to remember at all how
4	many thousands of sites the M6 beta was released to?
5	
	A No, I don't remember.
6	Q Let me show you what has been marked Plaintiff's
7	Exhibit 142.
8	MR. JOHNSON: Do you want these, Your Honor?
9	THE COURT: No. No. I can read them. Thank you,
10	though.
11	Do you want a copy?
12	BY MR. JOHNSON:
13	Q This is an e-mail string involving you and a Mr. John
14	Kallen. I may be pronouncing that wrong. It looks like he
15	may be from Norway or Finland, or one of those Scandinavian
16	countries given how his name is spelled.
17	Do you know Mr. Kallen?
18	A I vaguely remember, because I remember that somebody in
19	the Capone team was sort of the primary contact for me. But
20	I don't remember the name, but according to this e-mail was
21	that person. I'm really not good at remembering people's
22	name.
23	Q Mr. Kallen writes to you that he believes someone is
24	interested in writing extensions to Capone's mail client to
25	view Lotus's server would want to use the IShellView

interface. That's one of the namespace extension
 interfaces, right?
 A Right.
 Q Not only is Chicago Explorer ready for this kind of

5 action, but the Capone Explorer shell that I've written 6 expects IShellView and presents an IShellBrowser interface 7 to those IShellViews.

8 So that makes sense to you, right? I'm sure it doesn't 9 make sense to a lot of people in this room, but to you that 10 makes sense. This was another way you could use the 11 namespace extensions to create a viewer in order to view 12 client e-mail from Lotus servers?

13 A Okay, yes. So, yes, it's all talking about the 14 namespace extension and possible creation of namespace 15 extension which can browse into Lotus Notes database, yes. 16 Q So that's another way we can use your namespace 17 extensions, right?

18 A Right. So whenever somebody has a database like this,
19 which is not using the file system, yeah, these are a good
20 application of the namespace extension mechanism.

21 Q Lotus Notes is just like that, isn't it?

22 A Yes.

Q So this would be another great use of the namespaceextensions for the Lotus Notes product?

25 A Yes.

Q Now Mr. Kallen goes on to say -- asks if he can give the external contracting company the header file, which I call this shell object H. I don't know how you would say it, but that's the header file for the extensions, right? A Yes.

6 Q And he says appropriately stripped of internal stuff, 7 and asked whether there was a plan to make these interfaces 8 public either in M6 or when Chicago ships. And, of course, 9 you state up in your e-mail that you told him yes, it was 10 going to be published, right?

11 A Okay. So again, I don't remember any of those, but 12 according to this e-mail, it seems like the shell object --13 the header file had some comments indicating a certain 14 portion internal. So as long as John removes those internal 15 pieces from the shell object, they can give it to third 16 party. And that was a question from him, and my answer was 17 yes. Okay.

18 Q I would like you to focus at the end of Mr. Kallen's 19 e-mail, he states, down at the bottom, these interfaces are 20 nice as they're the result of many months of tuning. It 21 would be good to reuse them.

22 Can you provide us with any insight as to what
23 Mr. Kallen means when he says that these interfaces are nice
24 as they're the result of many months of tuning?
25 A So whenever this kind of extension mechanism -- when we

build, it's very difficult to design everything on the paper 1 2 or the meeting room. So you actually need a real customer 3 to work with. So I remember that the Capone team, the 4 e-mail team was one of the very few -- the client, from my 5 point of view, to refine the namespace extension mechanism. 6 So way before this kind of discussion, I created 7 something and delivered to them, and they started testing. 8 They gave me feedback and improve, improve. That kind of a 9 process, we call it tuning. So according to him, right, 10 because we put a lot of effort into it, the namespace 11 extension mechanism was very good. So he -- yeah, so he thinks that makes sense to use it. 12 13 You would agree, wouldn't you? Q 14 I agree. That was my work. А 15 Mr. Nakajima, I would like to show you what's been 0 16 marked Plaintiff's Exhibit 176. The top e-mail here is 17 actually from you. And do you remember this one? You were 18 basically trying to straighten out the folks about what the 19 shell extensions did and how they did them? 20 (Affirmative) I remember this discussion. А Uh-huh. 21 What you did was to insert within the question and Q 22 answers provided by Mr. Dave Seres with explanations of 23 where he was right or where he was wrong with respect to his 24 description of how the shell extensions worked, right? 25 Α Uh-huh. (Affirmative)

1 Q Is that a yes, sir? I'm sorry.

2 A Yes.

12

3 Q I'm sorry to ask you that, but uh-huh sometimes is4 misinterpreted on the record.

5 Okay. If you turn for a moment to the second page of 6 that document, and focusing on the first full question and 7 answer. And the jury has already seen this. We've talked 8 about this with Mr. Muglia, so I'm not going to spend a lot 9 of time on this. But if you would just look at your 10 response to this question and answer, which has the three 11 pound signs on it.

You can just read that to yourself.

13 A The answer must be yes. To achieve our size goal, we 14 decided to put a subset implementation of our OLE2, 15 lightweight binder, in the shell, so that we can run the 16 shell and old Windows apps without loading OLE2, but it uses 17 the same algorithm when loading in In-Proc server DLLs. 18 When we switch to the real OLE2, nobody will notice the 19 difference.

Q So what you were saying here is this wonderful mechanism you created was going to work even when we got machines that could handle full OLE, right?

23 A Right.

24 Q And nobody would notice the difference, right?25 A Right, yes.

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1	MR. JOHNSON: Excuse me for the delay. I'm
2	actually eliminating questions because he's already answered
3	them.
4	THE COURT: You are doing fine.
5	MR. JOHNSON: Thank you.
6	BY MR. JOHNSON:
7	Q Turning to the last page of this exhibit and looking at
8	the second full question and answer there again, you
9	really don't need to read this out loud, but if you would
10	just look at your answer starting with this message is wrong
11	again. Just read it to yourself for a moment.
12	A Okay. Yes, I read it.
13	Q So what you are saying here to Mr. Seres is not only
14	will this work on future operating systems that are OLE
15	based, but the ISVs are not going to have to rewrite their
16	extensions, correct?
17	A Yes, right.
18	Q And they will continue to work in future versions of
19	Windows, right?
20	A Yes.
21	Q Finally, if we turn back briefly to the first page of
22	this exhibit, looking at the top of your e-mail to Mr. Chase
23	and Mr. Seres and others, it looks like a whole bunch of
24	people there, if you look down in that first paragraph
25	there, starting with the sentence we took this approach

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1	because
2	MR. JOHNSON: If we could highlight that,
3	Mr. Goldberg. From that point halfway down the paragraph.
4	Just all the way down to that full paragraph.
5	There, that's great.
6	BY MR. JOHNSON:
7	Q If you could just read that again to yourself,
8	Mr. Nakajima. I don't think it's necessary to you read it
9	out loud.
10	A Yes, I did. Okay.
11	Q So, again, what you are saying here is that the
12	namespace extension APIs would be compatible with future
13	versions of Windows both today and tomorrow, right?
14	A No. This is not talking about the shell extension
15	itself. The shell extension mechanism uses the OLE
16	compatible mechanism to load third-party applications. So
17	even though we replace this lightweight version to a full
18	version, the shell extension will be loaded in the same
19	manner.
20	Q My question was a bad one. This discussion here is
21	about all the shell extensions, right?
22	A No. This discussion is about the lightweight OLE
23	binder, not about shell extension.
24	Q Right, but the lightweight OLE binder is what you used
25	to implement the shell extensions?

1 A Yes.

Q And when you say in the last sentence there that's highlighted, this compatibility is the key of this technology, and we should emphasize it, what do you mean by that?

6 So, first of all, this technology means lightweight А 7 OLE, not the shell extension. So the lightweight OLE is 8 really the bridge from -- between the current version of Windows, Windows 95, and the future version of Windows which 9 10 comes with OLE. And so that was the key because I remember 11 that there was a lot of confusion because I chose not to use 12 OLE, even though OLE was to become a standard. But in order 13 to make it compatible, I made it compatible. It's a subset 14 of OLE. So that was a trick. I mean it was a trick. It's 15 a typical engineering compromise, which I was really, really 16 good at, but created some confusion even inside. So I 17 needed to explain again and again to everybody to say this 18 is good for us and ISVs.

19 Q And it's good not only today but tomorrow?

20 A Right, tomorrow, yeah. For tomorrow, right.

21 Q I would like to hand you what has been marked22 Plaintiff's Exhibit 181.

Now, Mr. Nakajima, is this the header file that we were
talking about for the shell extensions that you created?
A Yes.

Π

1	Q And is this the slim document you were maintaining or
2	did the slim document contain more than this, if you know?
3	A I don't remember. But it has some comments, so it's
4	more than just a header file.
5	Q But generally when Microsoft offers an SDK, software
6	developer kit, to ISVs, they generally come with more
7	documentation than just the header file, right?
8	A Yes.
9	Q That kind of documentation is more complete and easier
10	to use, right?
11	A Yes.
12	Q I think you actually testified on direct, and I want to
13	get the timing down here. I believe you stated that the
14	Cairo shell was canceled?
15	A Uh-huh, yes.
16	Q And do you recall that that happened in the fall of
17	1994?
18	A Again, this is not based on my memory, but because
19	somebody showed me the e-mail from Bill indicating that the
20	decision was made, that was October '94, so that's why I
21	believe that meeting happened in either October or September
22	of '94.
23	Q And at the time Cairo was canceled, about the same time
24	or maybe just a little before that, a decision had been made

I don't remember the order, but at some point, yes, the 1 А 2 company made a decision to use Chicago shell for Windows NT 3 as well. 4 And one implication of that decision was that the 0 5 namespace extension APIs started working on Windows NT, 6 right? 7 Α Yes. 8 Just so we can get the timing down here because I think 0 it's important, let me show you Plaintiff's Exhibit 216. 9 10 Mr. Nakajima, this is an e-mail from Mr. Allchin to the 11 Windows NT group. Do you recall seeing this e-mail before? 12 А No. No. 13 If you could turn to the second page, the second full Q 14 paragraph, and just drawing your attention to that paragraph 15 there, it says, Bill recently made a decision to move the 16 Cairo shell effort to Office. 17 So that would be effectively when Cairo was canceled, 18 right? 19 Uh-huh, yes. Α 20 And Mr. Gates made that decision because he wanted the 0 21 Office group chartered with taking on Lotus Notes user 22 interface and because he felt it was very important that 23 Office take advantage of any new shell features first, 24 right? 25 А Uh-huh. (Affirmative) I can read it, yes.

Π

1	Q At this point in time Office was now explicitly
2	planning on building shell features such as their own
3	Explorer in their 1996 product, right?
4	A Yeah, the e-mail said so. Actually I didn't know that.
5	Q Let's go to the next paragraph there just briefly. It
6	starts out, given the above decision, we have decided to use
7	the Chicago shell code base for the NT workstation.
8	That's the decision we were just talking about, right,
9	the decision to move the Chicago shell code base onto
10	Windows NT?
11	A Yes.
12	Q So that decision was made at the same time as the
13	decision to cancel Cairo, right?
14	A According to this e-mail, yes.
15	Q That time period, if we look at the date of
16	Mr. Allchin's e-mail, going to the front again, would have
17	been at some point prior to September 27th, 1994, right?
18	A Uh-huh, yes.
19	Q Mr. Nakajima, do you understand that once a beta goes
20	out, ISVs start developing their products using the
21	documented APIs?
22	A Yes, I understand.
23	Q And one of the purposes of widely distributing a beta
24	release is to provide feedback to Microsoft about the
25	features being offered by the new operating system, right?

1	А	Yes.
2	Q	And do you recall whether there was any feedback from
3	ISVs	regarding the shell extensions?
4	А	Yeah, I do remember some. I actually went to some
5	suppo	orting site I think. I don't remember, it was like a
6	discu	ssion group that ISVs can post comments and questions,
7	and I	read some of those, yes.
8	Q	And was that feedback good? Did they like your
9	exten	sions?
10	A	Uh-huh, yeah. Yeah.
11	Q	These were ISVs that you were talking to, right?
12	A	Third-party ISVs.
13	Q	You certainly don't recall them giving you any reason
14	to al	ter the design of your shell extensions, do you?
15	A	I don't remember, but it's quite typical they make some
16	reque	ests, additional features, something like that.
17	Q	But what I'm talking about, none of the ISVs said to
18	you,	these extensions are terrible, you need to change them
19	compl	etely?
20	A	No, I don't remember. Actually I tend to forget that
21	kind	of feedback.
22	Q	So what you do remember is that they liked them, right?
23	A	Right. I feel like every ISV in the world loves them.
24		THE COURT: You have failed memories about bad
25	memor	ies. But you don't recall anything like that?

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1	THE WITNESS: No.
2	BY MR. JOHNSON:
3	Q Mr. Nakajima, does Microsoft have people who are
4	responsible for testing the beta versions of the software
5	before it is released to ISVs?
6	A Uh-huh. (Affirmative) We do have a testing group.
7	Q And would they be known has a quality assurance group?
8	A Yes.
9	Q So before any beta is released out to the public, the
10	software has to go undergo extensive testing, right?
11	A Yes.
12	Q To make sure it's all functioning and working well?
13	A Yes.
14	Q You don't just spring this code on ISVs without making
15	sure that it's fully functional and working well, right?
16	A Yes.
17	Q We may have covered this, but just to make sure, apart
18	from anything that might have been said to you by the Cairo
19	people, did you get any feedback from any source after the
20	release of the M6 beta about any problems with the shell
21	extensions, including the namespace extensions?
22	A Somebody so so I do remember that the Cairo team
23	didn't like it.
24	Q Yes, I know that, and I was trying to exclude them from
25	your answer. Apart from the Cairo team, anybody else?

I

1 A I don't remember.

2	Q Do you recall whether you made any changes at all to
3	the shell extensions, including the namespace extensions,
4	between the release of the M6 beta and Mr. Gates' decision
5	to de-document the namespace extensions?
6	A I think I made some changes to the header file so that
7	those hidden APIs are not part of the SDK.
8	Q That was after Mr. Gates' decision?
9	A After Mr. Gates' decision, yes.
10	Q What I'm talking about is the time period between the
11	release of the M6 beta to the ISVs up to the point of
12	Mr. Gates' decision, not after. So between the M6 beta and
13	up to the point before Mr. Gates made his decision, let's
14	say October 2nd, 1994, do you recall even making any changes
15	to the shell extensions?
16	A So how long was that period from M6 to the decision?
17	Q From June of 1994 to the very first couple days of
18	October 1994.
19	A So four or five months? Yeah, so it is possible that I
20	made some changes, but I don't recall any of those.
21	Q One of the things you said in your direct testimony was
22	that at some point you were given this I think you said
23	hundreds of pages of document by the Cairo people setting
24	forth what they thought of your shell extensions; is that
25	right?

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1	A Right.
2	Q This document was a big thick one, right?
3	A Yes.
4	Q Do you still have that document?
5	A No. Actually I discarded all the documents and e-mail
6	when I left Microsoft. It's confidential documents, so I'm
7	not supposed to keep it.
8	Q Understood, sir. Was that document sent to you, do you
9	recall, electronically?
10	A I don't remember, but I don't remember printing it.
11	Q Do you recall who authored that document?
12	A The Cairo team. I don't remember any single author.
13	Q Prior to your deposition in this case in 2009, did you
14	get a chance to review that document?
15	A No.
16	Do you have it?
17	Q I'm not allowed to make comments, so I've just got to
18	ask you another question.
19	Prior to your testimony in this case today, did you get
20	a chance to see that document?
21	A No. I mean the after I left Microsoft?
22	Q Yeah.
23	A Of course, I looked at it at that time. But after I
24	left Microsoft, no.
25	Q You haven't seen it since?

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1	A No. It is quite possible that is in my memory, because
2	I tend to remember something good. That was after a 30-page
3	document became a 200-page document. Quite possible.
4	Because that's a good story to tell to my kids, to say,
5	yeah, I defended against a 200-page document on one CD.
6	It's like a war memory. I fight against a hundred people,
7	and actually it was only ten.
8	Q Mr. Nakajima, you already have this exhibit up there,
9	but rather than you going through the pile, this is
10	Plaintiff's Exhibit 1
11	A Thank you.
12	Q the e-mail from Mr. Gates of his decision.
13	If you look at Mr. Gates's e-mail, in the first
14	paragraph there, the last sentence next to last sentence,
15	Mr. Gates says, the shell group did a good job of defining
16	extensibility interfaces.
17	So that would be your group, right?
18	A Yes.
	Q And Mr. Gates was expressing that you did a good job,
20	right?
	A Yes.
22	Q And if you look in the next paragraph, in the last
23	sentence again, Mr. Gates says, this is not to say that
	there is anything wrong with the extensions, on the
25	contrary, they are a very nice piece of work.

1	This is again Mr. Gates reflecting that you had done a
2	really nice piece of work, correct?
3	A Yes. Yeah.
4	Q And do you recall that Mr. Gates loved the namespace
5	extensions?
6	A I don't remember that detail, but obviously I was
7	treated really well in the company, so I feel like Bill
8	liked what I did.
9	Q You would agree with me, sir, as of October 1994, when
10	Mr. Gates made this decision to de-document the namespace
11	extension APIs, there was nothing wrong with the namespace
12	extensions, right?
13	A Yes and no. So, right, as we have been discussing, we
14	made some compromise, like the robustness, or some
15	flexibilities. So from my point of view, nothing is
16	perfect. You make some decisions, but if you are trying to
17	make everything perfect, then you never ship the product.
18	So you have to make some sacrifice, some decisions. I call
19	it the engineering compromise to release the product.
20	But in that sense, it's a good piece of work. But if
21	you say is this perfect, then the answer is no. I think
22	Bill knew that really well, but in this kind of e-mail, it's
23	a very important decision, he needs to be nice to everybody,
24	not only to the Chicago team, but the Cairo team as well.
25	So this is in my sense, this is the sort of the

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1	politically correct statement.
2	Q I think you said that this decision was really more a
3	matter of politics than anything else, right?
4	A Right, that was my interpretation.
5	Q I would like to show what you has been marked
6	Plaintiff's Exhibit 224.
7	Mr. Nakajima, do you recognize this e-mail from
8	yourself
9	A Yes.
10	Q dated October 10th, 1994?
11	A Yes. Yeah, I see that.
12	Q What were you doing here?
13	A This e-mail is a follow-up e-mail regarding that
14	decision to pull namespace extension out of the SDK.
15	Q Do you understand correctly that essentially you got
16	the job of hiding one of the shell extension mechanisms as
17	you state in the first paragraph there?
18	A Yes. I needed to make some changes to the header file
19	to hide those interfaces.
20	Q If we look below, there's the details with respect to
21	exactly what you were doing, right?
22	A Yes.
23	Q And it says with respect to I think I'm reading this
24	right, IShellFolder and IEnumIDList, they became a read
25	only; is that right?

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1	A No. No. I think IShellFolder oh, became read only,
2	yes. Okay.
3	Q And that meant that ISVs could no longer customize
4	their implementation, right?
5	A Uh-huh. (Affirmative)
6	Q Is that a yes?
7	A Yes. Yes.
8	Q And above these APIs are namespace extension APIs,
9	right?
10	A Yes.
11	Q And then down a little further it says it's got
12	IShellBrowser, IShellView, IPersistFolder, and
13	ICommDigBrowser, and all of those became private?
14	A Yes.
15	Q And all four of those APIs are also namespace extension
16	APIs, right?
17	A Yes.
18	Q And what does it mean for an API to become private?
19	A Probably meaning the third party cannot use them
20	anymore.
21	Q Mr. Nakajima, I think you testified earlier today that
22	when you were creating these namespace extension APIs, you
23	chose to have them open up in the same process because you
24	had to deal with that four megabyte size limitation, right?
25	A Yes.

And having the shell extension running in a separate 1 Q 2 process would have required more memory? 3 А Yes. 4 But it would be perfectly reasonable to change the 0 5 mechanism of those APIs if you had enough memory so that the 6 namespace extension would open up in a separate process, 7 right? 8 It's possible, yes. А 9 Did you ever change the namespace extension APIs so 0 10 that they would open up in a separate process? 11 А I don't remember the detail, but, again, I think I've 12 read too many e-mails during this process that seems like we 13 made a decision to open some of the namespace extensions in 14 a separate process. I think we called it the rooted 15 explorer. So that instead of e-mail folders show up in the 16 left pane, it will open a separate window but still uses the 17 same interface mechanism. 18 So when it opens up in a separate window, that means Ο 19 it's running in a separate process? 20 In this case, yes. But it's not integrated anymore. А 21 It's more like a separate window. 22 Q Understood. You called that rooted extension as 23 opposed to non-rooted extension, right? 24 Right, because the extension now up here is of the root А 25 of the tree, right, e-mail folder is a root now instead of a 1 branch inside of the tree.

2	Q So do you recall, sir, that that fix that you are
3	talking about of having the of having a separate window
4	open, doing a rooted extension occurred right after
5	Mr. Gates' decision?
6	A Yeah. That is such a detail I don't recall. But,
7	again, some of the e-mail I saw during this process
8	indicated that we made that decision.
9	Q Let me show you Plaintiff's Exhibit 279.
10	Just very quickly, if you refer down to Mr. Belfiore's
11	e-mail, down at the bottom of the page there, I just want to
12	refer you to this first paragraph there.
13	MR. JOHNSON: If we could bring that up.
13 14	MR. JOHNSON: II we could bring that up. BY MR. JOHNSON:
14	BY MR. JOHNSON:
14 15	BY MR. JOHNSON: Q It says, there shouldn't be any issues with shell
14 15 16	BY MR. JOHNSON: Q It says, there shouldn't be any issues with shell extensions being run robustly on NT. The big ones,
14 15 16 17	BY MR. JOHNSON: Q It says, there shouldn't be any issues with shell extensions being run robustly on NT. The big ones, namespace extensions, end up in a separate process.
14 15 16 17 18	<pre>BY MR. JOHNSON: Q It says, there shouldn't be any issues with shell extensions being run robustly on NT. The big ones, namespace extensions, end up in a separate process. So my question to you is what Mr. Belfiore is talking</pre>
14 15 16 17 18 19	<pre>BY MR. JOHNSON: Q It says, there shouldn't be any issues with shell extensions being run robustly on NT. The big ones, namespace extensions, end up in a separate process. So my question to you is what Mr. Belfiore is talking about is using this rooted extension, right?</pre>
14 15 16 17 18 19 20	<pre>BY MR. JOHNSON: Q It says, there shouldn't be any issues with shell extensions being run robustly on NT. The big ones, namespace extensions, end up in a separate process. So my question to you is what Mr. Belfiore is talking about is using this rooted extension, right? A Yes. I can interpret it that way, yes.</pre>
14 15 16 17 18 19 20 21	<pre>BY MR. JOHNSON: Q It says, there shouldn't be any issues with shell extensions being run robustly on NT. The big ones, namespace extensions, end up in a separate process. So my question to you is what Mr. Belfiore is talking about is using this rooted extension, right? A Yes. I can interpret it that way, yes. Q And, in fact, this e-mail is dated in March of 1995.</pre>
14 15 16 17 18 19 20 21 22	<pre>BY MR. JOHNSON: Q It says, there shouldn't be any issues with shell extensions being run robustly on NT. The big ones, namespace extensions, end up in a separate process. So my question to you is what Mr. Belfiore is talking about is using this rooted extension, right? A Yes. I can interpret it that way, yes. Q And, in fact, this e-mail is dated in March of 1995. You started doing that with the namespace extensions way</pre>

1 is no.

2 Q Let me see if I can refresh your recollection. This is3 Defendant's Exhibit 84.

Mr. Nakajima, if you could turn to the second page
where it says number six, questions and answers. And this
is an e-mail that was actually sent to Mr. Gates dated
November 12th, 1994 from a Mr. Struss.

I just want to draw your attention to the paragraph one 8 9 there and the second half of it starting with, the semantics 10 of these APIs, it states, the semantics of these APIs also 11 changed slightly. Apps that use these will come up in a new 12 explorer window and the left-hand pane will only represent 13 the hierarchy that the applications present, previous 14 semantics allowed apps to show their hierarchy along with 15 file systems and run in the same window.

16 So my question to you, sir, is this is exactly what you 17 were talking about using a rooted extension instead of a 18 non-rooted one, right?

19 A Yes.

20 Q So we can tell that as early as November 12th, or 21 sometime before November 12th, 1994, this change had already 22 been implemented?

A November -- uh-huh, yes. It seems like that was
November. Yes. Okay, yeah, I agree.

25 Q Let me show you now what has been marked Plaintiff's

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1	Exhibit 355. This is a July 1996 article that appeared in
2	the Microsoft Systems Journal written by David Campbell.
3	Do you know Mr. Campbell?
4	A I don't remember, but I probably do.
5	Q Turning to the last page of this exhibit just briefly,
6	you will see at the very end Mr. Campbell says he would like
7	to thank and he lists a number of people
8	MR. JOHNSON: Can we bring that up?
9	BY MR. JOHNSON:
10	Q including you?
11	A Uh-huh. (Affirmative)
12	Q So do you recall helping Mr. Campbell with this
13	article?
14	A I do remember I helped somebody to write this article.
15	I just don't remember his name.
16	Q This article is when the namespace extension APIs were
17	re-documented, right?
18	A Uh-huh. (Affirmative) It seems like because the date
19	is '96, right? Q July of 1996, right? A Yes.
20	Q July of 1996, right?
21	A Yes.
22	Q And just going back to the first page, then
23	MR. JOHNSON: Just the first paragraph there after
24	Mr. Campbell's name, highlight that for a minute.
25	//

1 BY MR. JOHNSON:

Q Mr. Campbell states he's a support engineer on the Microsoft Premier Developer Support team, who specializes in Windows shell extensions as well as Microsoft visual C++. Apparently he also likes cheese.

6 Does that refresh your recollection at all that 7 Microsoft has this Premier Developer Support team and they have developers who specialize in particular things, that 8 ISVs can call in and get information about these APIs? 9 10 А Again, I don't remember. But I do believe so, yeah. 11 Now if you look down at the next paragraph, this 0 12 article about namespace extension APIs says, that this 13 mechanism, the namespace extension APIs, is in both Windows 14 95 and Windows NT, right?

15 A Uh-huh. (Affirmative) It says so, yes.

16 Q That would be true, you know that for a fact, right?
17 A Right, because the Windows NT -- yeah. The Chicago
18 shell become the shell of Windows NT, yes.

19 Q And if we go to the bottom of the first page, then,
20 under the heading types of namespace extensions --

21 MR. JOHNSON: If we could highlight the first 22 couple sentences of the second paragraph there. Could we 23 bring that up?

24 BY MR. JOHNSON:

25 Q It states, the difference between rooted extensions and

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1	the non-rooted extensions is how they are used. There is no
2	code difference between the two.
3	And you would agree with that, right, Mr. Nakajima,
4	there is no code difference between the two extensions,
5	between rooted and non-rooted, right?
6	A I agree.
7	Q And a rooted extension just means it stands alone, as
8	they say here, right?
9	A Yes.
10	Q If we stay on this first page just a moment. Go up
11	towards the top.
12	MR. JOHNSON: If we could highlight the third
13	paragraph which begins, okay, but why do I care.
14	BY MR. JOHNSON:
15	Q It goes on to say, this namespace mechanism can be
16	extended to include new items. You can write a namespace
17	extension to add your own custom data, and custom views on
18	that data, into the Explorer's internal namespace.
19	That's exactly how you intended the namespace
20	extensions to operate, right, Mr. Nakajima?
21	A Yes.
22	Q So basically the only difference between a rooted
23	extension and a non-rooted extension is that a rooted
24	extension opens up in its own window?
25	A Uh-huh, yes. It doesn't talk about the process, but I

1	don't remember that detail.
2	Q Well, if we look at the second page of this exhibit,
3	actually got some pictures. Pictures are always good.
4	MR. JOHNSON: If we could highlight that top
5	explorer there. Just the top one, not the CAB file.
6	BY MR. JOHNSON:
7	Q This shows an example of a rooted namespace, right?
8	A Yes. The start menu is the root of the tree on the
9	left side.
10	Q That's right. So only that namespace comes up in this
11	particular Windows Explorer?
12	A Yes.
13	Q Then if we look down a little further and highlight
14	that other Explorer window, this is an example of a
15	non-rooted namespace where the start the same start menu
16	comes up in the Windows Explorer with all the other
17	namespaces, right?
18	A Yes.
19	Q So the namespace extensions as originally implemented
20	in the M6 beta were these non-rooted extensions, correct?
21	A Again, it seems like I believe so. Again, I don't
22	recall that detail. But according to this document,
23	indicates that idea of rooted extensions came after that
24	issue.
25	Q If we go down to just under that Windows Explorer there

for the non-rooted extension, it states --1 2 MR. JOHNSON: You lost a little bit of the end 3 there, Mr. Goldberg. If we could get that up. 4 There we go. Just highlight it. 5 BY MR. JOHNSON: 6 It states, the implementation of the namespace Q 7 extension is basically the same for both kinds. Which 8 method you use depends on your extension and is a matter of 9 style and common sense as much as anything else. 10 You agree with that, right, sir? 11 А Yeah, it's a very ambiguous statement. 12 0 But you would agree that this publication in July of 13 1996 was telling developers, telling ISVs that they could 14 use rooted extensions or non-rooted extensions, and the 15 method which you used just depends on your extension and is 16 a matter of style and common sense, right? 17 А Right, I agree. Yeah. 18 If you look down at the bottom of that page --0 19 MR. JOHNSON: If you can highlight the another 20 difference and the paragraph after it. 21 Bring that up and make it a little bigger, 22 Mr. Goldberg, so people can actually read it. Thank you. 23 BY MR. JOHNSON: 24 Mr. Nakajima, if you could read that to yourself first. Ο 25 Α Okay. Yeah, I read it.

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1	Q This is talking about the entry point from the user's
2	point of view, right?
3	A Yes. Yeah, it talks about where in the regular
4	namespace, the non-rooted the custom folder appears, yes.
5	Q So the custom folder can actually appear right on the
6	desktop, right?
7	A Yes.
8	Q And the custom folder could fit into or go into the My
9	Computer folder, for example, right?
10	A Yes.
11	Q And so we're not relegated, or we don't have to limit
12	ourselves to just appearing in the Windows Explorer, right?
13	A Ilostit.
14	Q I say, if we create one of these custom namespace
15	extensions, we could put it on the desktop?
16	A Oh, yes. Yes. Yeah, you can put it on the desktop.
17	Q So we don't have to be limited to just having it come
18	up in the Windows Explorer, right?
19	A Okay. So more precisely speaking, the desktop has no
20	tree pane or view pane, so only can only thing you see is
21	a list of icons. So one of the extension can chose to put
22	the icon there on desktop. But when the user double clicks
23	that icon, Explorer opens up.
24	Q Understood. But what I'm saying is the user could
25	actually put that right on his desktop and by clicking it go

right to that particular namespace, and whatever was in 1 2 there would show up in the viewer on the right side, right? 3 The user cannot chose to put it on the desktop. The А 4 ISV choses to put it on the desktop, and then the user can 5 open it up. 6 Good point. But what I'm saying is we're not simply --Q 7 the developer is not limited to where he can put this 8 functionality, right? 9 But limited in the sense that it should be somewhere in А 10 the namespace extension, either at the desktop or somewhere 11 underneath the desktop. 12 0 So, for instance, in that demonstrative that you were 13 looking at you talked about the blue in the background. 14 That was the desktop, right? 15 Α Yes. 16 So you could take one of these custom folders and 0 actually have it appear as an icon right on the desktop? 17 18 Yeah, only icon, but not the view. А 19 When you press on it, it would open up the Windows 0 20 Explorer and would show you your custom folder? 21 Right, but one of the important detail is -- that we А 22 have been talking about is this third-party code running 23 In-Proc, inside a process versus outside a process. But 24 putting the icon on the desktop is simply putting the icon. 25 So at that time when the user sees the custom folder icon on

1	the desktop, the third-party code is not running yet. The
2	third-party code runs only when user opens the Explorer
3	window. So the very important distinction is the
4	third-party code will never run inside the desktop process,
5	but only in the Explorer process.
6	Q Understood. And these namespace extensions use these
7	In-Proc DLLs, which means in process DLLs?
8	A Yes.
9	Q And they use those in process DLLs whether it's a
10	rooted extension or a non-rooted extension, right?
11	A You're right.
12	Q So they therefore continue to run in process, it's just
13	a question of whether they are in their own window or in the
14	Windows Explorer, the full window, right?
15	A So this is the detail I don't remember, but it is
16	possible that we chose to create another process, separate
17	process from the usual Explorer when we open a rooted
18	Explorer. Again, I don't remember exactly, but all those
19	documents I read indicate that that was the decision somehow
20	we made. We made the system more robust.
21	Q But with respect to the namespace extension APIs, they
22	had not changed at all from the time they were published in
23	June of 1994 to the time that they were republished in July
24	of 1996, correct?
25	A Again, it is possible that some minor change has been

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1	made. But overall, the architect was the same, yes.
2	Q I would like you to turn briefly to page 4 of this
3	exhibit. Looking down at the section at the bottom, anatomy
4	of a namespace extension, it provides the reader with a
5	number of things that can be done with namespace extensions
6	in the first paragraph there. If you would look at the
7	sentence beginning, this new object can be used for any
8	number of things.
9	A Right, indicating their many use.
10	Q Including displaying the contents of your e-mail inbox
11	or Internet newsgroups, the contents of a zip file or a
12	database of some sort, document management system, or
13	whatever?
14	A Yes.
15	Q So certainly it's fair to say it's not even limited to
16	the items listed here?
17	A Right.
18	Q It's only limited by the imagination of the developer?
19	A Right. You're right. It's up to ISVs.
20	Q So it's fair to say that the namespace extensions are
21	not at all about opening applications through the Windows
22	Explorer, but rather creating virtual folders of information
23	from many different sources, correct?
24	A Yes.
25	Q So, for instance, if a word processing application

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1	wanted to include a document management system within their
2	application, you could use these namespace extensions to
3	have that document management system show up in the
4	Explorer, right?
5	A Yes, especially if they have their own database, it
6	does make sense to do that.
7	MR. JOHNSON: Your Honor, do you want to take
8	lunch?
9	THE COURT: I was hoping to finish with
10	Mr. Nakajima before lunch, but if that's not possible,
11	then
12	MR. JOHNSON: I don't think I'm going to be long,
13	but I don't think it's fair to keep us from lunch.
14	THE COURT: Let's take lunch, and we'll be back in
15	20 minutes.
16	(Recess)
17	
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