EXHIBIT 2

UNITED STATES DISTRICT COURT EASTERN DISTRICT OF TEXAS TYLER DIVISION

BEDROCK COMPUTER TECHNOLOGIES LLC,

Plaintiffs,

Case No. 6:09-CV-0029

vs.

SOFTLAYER TECHNOLOGIES, INC., CITIWARE TECHNOLOGY SOLUTIONS, LLC, GOOGLE, INC., YAHOO! INC., MYSPACE, INC., AMAZON.COM INC., MATCH.COM, LLC and AOL LLC.

Defendants.

RED HAT, INC.,

Plaintiff,

Case No. 6:09-cv-00549

vs.

BEDROCK COMPUTER TECHNOLOGIES, LLC,

Defendant.

HIGHLY CONFIDENTIAL

VIDEOTAPED DEPOSITION OF DR. RICHARD NEMES

New York, New York

Tuesday, August 31, 2010

Reported by: AYLETTE GONZALEZ

JOB NO. 144128

| 1 | could. |
|-------------|---|
| 2 | A. Correct. |
| 3 | Q. So, my question is: When I |
| 4 | asked you what did you understand when I |
| 14:21:03 5 | said, removing expired records from hash |
| 6 | table? |
| 7 | A. What is the question? |
| 8 | Q. What did you understand that I |
| 9 | meant by removing expired records from a |
| 14:21:12 10 | hash table? |
| 11 | MR. CURRY: Objection to form. |
| 12 | A. I think I didn't understand the |
| 13 | question, so I can't answer what I thought |
| 14 | you meant by that part of the question. |
| 14:21:24 15 | Q. Do you understand that the 495 |
| 16 | Patent has to do with removing expired |
| 17 | records? |
| 18 | A. Correct. |
| 19 | Q. Is there any doubt in your mind |
| 14:21:32 20 | about that? |
| 21 | A. No. |
| 22 | Q. In your mind, is there a |
| 23 | difference between removing expired records |
| 24 | and deleting expired records? |
| 14:21:41 25 | A. No. |
| | |

| 1 | Q. So, when you talk about |
|-------------|--|
| 2 | deleting expired records, what does that |
| 3 | mean to you? |
| 4 | MR. CURRY: Objection to form. |
| 14:21:50 5 | A. Reclaiming the storage occupied |
| 6 | by that record. |
| 7 | Q. When you say, reclaiming the |
| 8 | storage occupied by that record, does that |
| 9 | mean making sorry. You said, "the |
| 14:22:13 10 | storage." What do you mean by "the |
| 11 | storage"? |
| 12 | A. Memory. |
| 13 | Q. So, you mean, reclaiming the |
| 14 | storage in memory occupied by that record; |
| 14:22:27 15 | is that right? |
| 16 | A. Reclaiming the portion of |
| 17 | memory occupied by that record. |
| 18 | Q. Is the case that by reclaiming |
| 19 | the portion of memory occupied by that |
| 14:22:40 20 | record, other non-expired data can be |
| 21 | located in that portion of memory? |
| 22 | A. Right. After it's removed, |
| 23 | there can be an insertion of new data into |
| 24 | that portion of memory. |
| 14:22:58 25 | Q. Now, that concept of removal of |
| | |

| 1 | expired records or deletion of expired |
|-------------|---|
| 2 | records, that was associated with the 495 |
| 3 | Patent, is there a different notion of |
| 4 | removal or deletion of expired records in |
| 14:23:22 5 | the 120 Patent? |
| 6 | A. Oh, we're talking about the |
| 7 | 495? I thought we were talking about the |
| 8 | 120. Maybe we should back up. |
| 9 | Q. That's all right. I'll take |
| 14:23:33 10 | that. I'll take your answer. |
| 11 | When you answered the last |
| 12 | question, you answered associated with the |
| 13 | 120? |
| 14 | A. Yep. |
| 14:23:39 15 | Q. Doctor, you answered with |
| 16 | respect to the 495 or 120, your call. |
| 17 | Which one was it? |
| 18 | MR. CURRY: Objection to form. |
| 19 | A. I'd be more comfortable going |
| 14:23:46 20 | over that again. Can we back up and I know |
| 21 | it might be a little bit burdensome, but to |
| 22 | keep it accurate. |
| 23 | Q. Actually, I'm kind of happy |
| 24 | with the answers. I want to find out, when |
| 14:23:56 25 | you were just answering these questions |
| | |

| 1 | under oath, did you understand what I was |
|-------------|---|
| 2 | talking about? |
| 3 | MR. CURRY: Objection to form. |
| 4 | He's signaling me to make a form |
| 14:24:07 5 | objection. |
| 6 | MR. STERN: I'm appreciate you |
| 7 | conceding that. The witness was |
| 8 | conceivably was doing that. |
| 9 | You're client was. Not the |
| 14:24:11 10 | witness. |
| 11 | Q. What did you understand when |
| 12 | you just provided, the record will reflect, |
| 13 | an entire list of answers to questions |
| 14 | about the meaning of delete or removal, |
| 14:24:26 15 | with respect to what patent did you think |
| 16 | you were answering questions? |
| 17 | A. If you could read it back, I |
| 18 | can identify it better. |
| 19 | Q. It just happened. I'm asking |
| 14:24:36 20 | in your mind, what do you recall just |
| 21 | happened within the last three minutes? |
| 22 | MR. CURRY: Objection to form. |
| 23 | A. I'd be more comfortable |
| 24 | Q. Actually, I appreciate that |
| 14:24:45 25 | phrase, "be more comfortable." But I'm |
| | |

| 1 | actually asking you a question under oath. |
|-------------|---|
| 2 | What did you understand were |
| 3 | the subject matter of the questions I was |
| 4 | asking? |
| 14:24:54 5 | A. At this point, I'm not sure. |
| 6 | Q. Were you providing truthful |
| 7 | testimony? |
| 8 | MR. CURRY: Objection to form. |
| 9 | A. I was providing truthful |
| 14:25:02 10 | testimony. |
| 11 | Q. About what? |
| 12 | A. I'm not sure anymore. |
| 13 | Q. You were providing truthful |
| 14 | testimony about the subject of which you're |
| 14:25:10 15 | not sure? |
| 16 | MR. CURRY: Objection to form. |
| 17 | A. It seemed to go back and forth |
| 18 | between 120 and 495. |
| 19 | Q. The question is the following: |
| 14:25:19 20 | "Do you understand that the 495 Patent has |
| 21 | to do with removing expired records? |
| 22 | "Answer: Correct. |
| 23 | "Is there any doubt in your |
| 24 | mind about that? |
| 14:25:28 25 | "Answer: No. |
| | |

| 1 | "In your mind, is there a |
|-------------|---|
| 2 | difference between removing expired records |
| 3 | and deleting expired records? |
| 4 | "Answer: No. |
| 14:25:36 5 | "So when you talk about |
| 6 | deleting expired records, what does that |
| 7 | mean to you? |
| 8 | "Answer: Reclaiming the |
| 9 | storage occupied by that record. |
| 14:25:49 10 | "Question: When you say |
| 11 | reclaiming the storage occupied by that |
| 12 | record, does that mean making I'm sorry; |
| 13 | you said the storage what do you mean by |
| 14 | the storage. |
| 14:25:59 15 | "Answer: Memory. |
| 16 | "So, you mean reclaiming the |
| 17 | storage in memory occupied by that record; |
| 18 | is that right? |
| 19 | "Answer: Reclaiming the |
| 14:26:06 20 | portion of memory occupied by that record. |
| 21 | "Question: Is that" the |
| 22 | Court Reporter has got a notation I can't |
| 23 | understand. |
| 24 | Your answer was: "Right after |
| 14:26:26 25 | it's removed there can be an insertion of |
| | |

| 1 | new data into that portion of memory." |
|-------------|---|
| 2 | Was that related to the 495 or |
| 3 | the 120? |
| 4 | A. 495. |
| 14:26:35 5 | Q. Is there doubt in your mind |
| 6 | about that? |
| 7 | A. No, there is not. |
| 8 | Q. Now, my question is: The |
| 9 | answers that you just provided with respect |
| 14:26:41 10 | to the 495, I could ask you the same with |
| 11 | respect to the 120. Are the answers the |
| 12 | same? You want me to go through them |
| 13 | again? |
| 14 | A. Yes. Let's take them one at a |
| 14:26:51 15 | time. |
| 16 | Q. Do you understand that the 120 |
| 17 | Patent has to do with removing expired |
| 18 | records? |
| 19 | A. Yes. |
| 14:27:00 20 | Q. Is there any doubt in your mind |
| 21 | about that? |
| 22 | A. No, there's not. |
| 23 | Q. In your mind, is there a |
| 24 | difference between removing expired records |
| 14:27:07 25 | and deleting expired records? |
| | |

| 1 | A. No. |
|-------------|---|
| 2 | Q. So, when you talk about |
| 3 | deleting expired records, what does that |
| 4 | mean to you? |
| 14:27:33 5 | Your last testimony was |
| 6 | "reclaiming the storage in memory occupied |
| 7 | by that record." That's what you said for |
| 8 | the 495. Is that different for the 120? |
| 9 | A. No. |
| 14:27:41 10 | Q. Is it the case that after the |
| 11 | expired record is removed, there can be an |
| 12 | insertion of new data into that portion of |
| 13 | memory? |
| 14 | A. I'm going to phrase it like |
| 14:27:56 15 | this, that portion of memory can be made |
| 16 | available for storage of new data. |
| 17 | Q. So, that is what we talked |
| 18 | about just now, the deletion or removal of |
| 19 | an expired record, the meaning of that, is |
| 14:28:09 20 | common both to the 120 and the 495; is that |
| 21 | right? |
| 22 | A. That's correct. |
| 23 | Q. Thank you. |
| 24 | Now, you also have in front of |
| 14:28:34 25 | you the 499 Patent. Can you take a look at |
| | |

| 1 | your definition of automatic expiration |
|-------------|---|
| 2 | include both external conditions and |
| 3 | internal conditions? |
| 4 | A. No, it does not include |
| 16:59:05 5 | internal conditions. |
| 6 | Q. Does not include internal? |
| 7 | A. Does not include internal |
| 8 | conditions. |
| 9 | Q. It just includes external |
| 16:59:12 10 | conditions? |
| 11 | A. Yes. |
| 12 | Q. So, something becomes |
| 13 | automatically expired through the |
| 14 | determination of an external condition; is |
| 16:59:34 15 | that correct? |
| 16 | A. Was there a question? |
| 17 | Q. Is that correct? |
| 18 | A. Say it once again, please. |
| 19 | Q. Something becomes automatically |
| 16:59:40 20 | expired through the determination of |
| 21 | whether the portion or contents of record |
| 22 | in comparison to an external condition? |
| 23 | A. Correct. |
| 24 | Q. You didn't disclose any other |
| 17:00:00 25 | methodology for automatic expiration nor do |
| | |

| 1 | Q. The 120 uses external chaining. |
|-------------|--|
| 2 | The 495 uses linear probing, right? |
| 3 | A. Correct. |
| 4 | MR. CURRY: Counsel, I know you |
| 15:16:34 5 | need to go at 4, but can we take a |
| 6 | quick break? |
| 7 | MR. STERN: Quick break. |
| 8 | THE VIDEOGRAPHER: The time is |
| 9 | 3:16 p.m. We're off the record. |
| 15:16:40 10 | (Whereupon, at this time, a |
| 11 | short recess was held.) |
| 12 | THE VIDEOGRAPHER: The time is |
| 13 | 3:26 p.m. We're back on the record. |
| 14 | BY MR. STERN: |
| 15:26:22 15 | Q. Dr. Nemes, we've talked about |
| 16 | Linked List this morning. We talked about |
| 17 | external chaining. I've got some questions |
| 18 | about terminology for you. |
| 19 | I think the record will reflect |
| 15:26:37 20 | that you talked about accessing a Linked |
| 21 | List. Does that phrase mean anything to |
| 22 | you, to access a Linked List? |
| 23 | MR. CURRY: Objection it form. |
| 24 | A. I don't think that's a term |
| 15:26:56 25 | that you would find in a glossary in a |
| | |

| 1 | computer science textbook, let's say, or in |
|-------------|---|
| 2 | a technical dictionary of electrical |
| 3 | engineering and computer programming terms. |
| 4 | I don't think it's a term of art. Is |
| 15:27:15 5 | that a term of art in that sense. |
| 6 | So, I don't think it's got, you |
| 7 | know, official meaning. If you typed it |
| 8 | into Wickipedia, I don't think anything |
| 9 | would come up. |
| 15:27:29 10 | Q. Have you done that? |
| 11 | A. No. |
| 12 | Q. So, what about the phrase, |
| 13 | "traversing a Linked List"? |
| 14 | A. Traverse is a technical term in |
| 15:27:42 15 | computer science. |
| 16 | Q. What does it mean to you to |
| 17 | traverse a Linked List? |
| 18 | A. To traverse a data structure in |
| 19 | general, Lined List being a particular |
| 15:27:51 20 | example of a data structure, to traverse a |
| 21 | data structure, in general, is to visit |
| 22 | each of its nodes, elements, I call them. |
| 23 | Q. So, traverse means to visit |
| 24 | each of the nodes or elements; is that |
| 15:28:11 25 | right? |
| | |

| 1 | automatic expiration is. |
|-------------|---|
| 2 | Are you suggesting that what |
| 3 | you wrote here, when you wrote the 120 |
| 4 | Patent, is not automatically expiration? |
| 16:55:32 5 | MR. CURRY: Objection to form. |
| 6 | A. I don't understand your |
| 7 | question. |
| 8 | Q. This section says that the |
| 9 | determination of expiration is made by |
| 16:55:43 10 | comparing some portion of the contents of |
| 11 | record to some external condition? |
| 12 | A. Yes, I see that. |
| 13 | Q. Is that consistent with your |
| 14 | definition of automatic expiration that you |
| 16:55:52 15 | provided to me a moment ago? |
| 16 | A. Yeah, I think it is. Sure. |
| 17 | Q. Can you explain how it's |
| 18 | consistent? |
| 19 | A. Let's say we have a record and |
| 16:56:03 20 | it identifies a particular passenger. If |
| 21 | we go and see that that passenger is on a |
| 22 | plane still in the air, and not an external |
| 23 | condition, that record is not has not |
| 24 | expired. If that passenger is no longer on |
| 16:56:21 25 | a plane in the air, then that record is |
| | |

| 1 | expired. |
|-------------|--|
| 2 | Q. So, the external condition |
| 3 | you're saying is the person being in a |
| 4 | plane in the air? |
| 16:56:32 5 | A. I think in that example you |
| 6 | might be able to say that. You can say |
| 7 | that in that example. |
| 8 | Q. Right. In order for the |
| 9 | information to be sent to the system, |
| 16:56:50 10 | whatever system is making a check of this |
| 11 | external condition, there would have to be |
| 12 | some information sent that the person is |
| 13 | either in the plane or deplaned from the |
| 14 | plane; would there not? |
| 16:57:01 15 | A. I don't really understand your |
| 16 | question. |
| 17 | Q. Well, what's an internal |
| 18 | condition? |
| 19 | MR. CURRY: Objection to form. |
| 16:57:14 20 | A. You want me to give you an |
| 21 | example of internal condition? |
| 22 | Q. Sure. |
| 23 | A. Let's say we have the 120 |
| 24 | Patent and we have our hash table, we have |
| 16:57:27 25 | our list of records and let's say we store |
| | |

| 1 | a record in a particular node on a Linked |
|-------------|---|
| 2 | List. And let's say that we've calculated |
| 3 | a check sum of the contents of that record, |
| 4 | and we story that check sum in the node |
| 16:57:50 5 | along with the record. |
| 6 | And let's say that one of the |
| 7 | bits, a portion of the record, is faulty |
| 8 | and a zero should be a one, or a one should |
| 9 | be a zero. When we go to retrieve that |
| 16:58:08 10 | record, we're going to retrieve the |
| 11 | contents of the record, recalculate the |
| 12 | check sum, compare that against the stored |
| 13 | check sum and find that there's a mismatch. |
| 14 | That's how checks are designed to be. |
| 16:58:24 15 | You lose a bit typically, |
| 16 | you get a different check sum. That's not |
| 17 | some external condition that caused |
| 18 | automatically that causes records to |
| 19 | automatically expire. That's an example of |
| 16:58:39 20 | something that's not in the category of |
| 21 | external condition. |
| 22 | Q. That's an internal condition? |
| 23 | A. I would call that an internal |
| 24 | condition. |
| 16:58:47 25 | Q. Does automatic expiration |
| | |

| 1 | is one understanding of the term, "number." |
|-------------|---|
| 2 | There's number theory, and I |
| 3 | could probably give you a definition for |
| 4 | the world of mathematics that, I guess, |
| 17:21:52 5 | would reflect my understanding of it, but I |
| 6 | don't think that's what you really are |
| 7 | after. So, if you could clarify a little |
| 8 | bit, I'll be happy |
| 9 | Q. When you wrote the 120 Patent |
| 17:22:01 10 | and used the word, "number" in various |
| 11 | places, what did you mean by the word, |
| 12 | "number" in the 120 Patent? |
| 13 | MR. CURRY: Objection to form. |
| 14 | A. If we could take a look at a |
| 17:22:09 15 | couple of spots, maybe that would make it |
| 16 | more exact. |
| 17 | Q. Before we take a look at a |
| 18 | couple of spots, I would like you to, to |
| 19 | the best of your recollection sitting here |
| 17:22:20 20 | today, tell me what you meant by the word, |
| 21 | "number" in the 120 Patent? |
| 22 | MR. CURRY: Objection to form. |
| 23 | A. You didn't like quantity, so |
| 24 | what about how many. How many, number and |
| 17:22:43 25 | how many how many is my understanding of |
| | |

| 1 | the term "number." |
|-------------|---|
| 2 | As I sit here thinking about it |
| 3 | and trying to give you a nonmathematical, |
| 4 | technical definition in terms of set theory |
| 17:23:01 5 | and all of the steps, the best I'm going to |
| 6 | do right now is a phrase "how many" and the |
| 7 | word number go strongly together in my |
| 8 | head. |
| 9 | Q. So, one is a number? |
| 17:23:15 10 | A. One is a number. |
| 11 | Q. Two is a number? |
| 12 | A. Two is a number. |
| 13 | Q. Three? |
| 14 | A. Three is a number. |
| 17:23:59 15 | MR. CURRY: Can we take a break |
| 16 | real quick? |
| 17 | MR. CHAIKOVSKY: One last |
| 18 | thing, and then we can take a break. |
| 19 | Q. You testified earlier that the |
| 17:24:08 20 | for example, Claim 1 would cover or |
| 21 | claim the best modes that you disclose in |
| 22 | invention; is that correct? |
| 23 | A. I testified to that. |
| 24 | Q. Right. That included the |
| 17:24:23 25 | pseudocode of the appendix; is that |
| | |

| 1 | isn't other pros that also describes it. |
|-------------|--|
| 2 | I'm just trying to be really careful here |
| 3 | to be very accurate in my answer, but that |
| 4 | does that is the pros that is associated |
| 16:22:04 5 | with Claim 2. |
| 6 | Q. Can you tell me, sir, in that |
| 7 | pros, what is the means for dynamically |
| 8 | determining the maximum number? |
| 9 | A. I think your |
| 16:22:16 10 | MR. CURRY: Objection to form. |
| 11 | A asking me to interpret the |
| 12 | claim. |
| 13 | Q. You're right. I am. |
| 14 | Let's be specific. You didn't |
| 16:22:21 15 | write any code that shows how to do that, |
| 16 | right? |
| 17 | A. I didn't write any code that |
| 18 | shows that. |
| 19 | Q. You didn't identify any device |
| 16:22:31 20 | that's capable of doing that, right? |
| 21 | A. Right. |
| 22 | Q. You didn't identify any |
| 23 | software program that's capable of doing |
| 24 | that, right? |
| 16:22:39 25 | A. Right. |
| | |

| 1 | Q. As you sit here today, can you |
|-------------|--|
| 2 | think of any structure at all, any sort of |
| 3 | physical or nonphysical device or system, |
| 4 | that you described to be able to perform |
| 16:22:51 5 | that means of dynamically determining a |
| 6 | maximum number? |
| 7 | MR. CURRY: Objection to form. |
| 8 | A. What's a nonphysical device? |
| 9 | Q. Software. |
| 16:23:01 10 | MR. CURRY: Objection to form. |
| 11 | A. Then I guess I don't understand |
| 12 | the question because I don't think of |
| 13 | software as a device. |
| 14 | Q. Let's go physical then. Any |
| 16:23:10 15 | physical device that you could identify |
| 16 | that could perform any of that means? |
| 17 | A. I could take I could program |
| 18 | a computer to perform the tasks described |
| 19 | by that means. |
| 16:23:32 20 | Q. Did you ever do that? |
| 21 | A. No. |
| 22 | Q. It continues to say, "The |
| 23 | record search means" do you see that? |
| 24 | A. What column? |
| 16:23:51 25 | Q. Claim 2. Talks about the |
| | |