EXHIBIT 2

1   1.   A computer-based method for generating a Downloadable ID to identify a

2   Downloadable, comprising the steps of:

3   obtaining a Downloadable;

4   fetching, if the Downloadable includes one or more references to a component, at

5   least one component identified by the one or more references; and

6   performing a function on the Downloadable and all components fetched to

7   generate a Downloadable ID.

8

9   2.   The method of claim 1, wherein the Downloadable includes an applet.

10

11 3.   The method of claim 1, wherein the Downloadable includes an ActiveX™

12 control.

13

14 4.   The method of claim 1, wherein the Downloadable includes a plugin.

15

16 5.   The method of claim 1, wherein the Downloadable includes HTML code.

17

18 6.   The method of claim 1, wherein the Downloadable includes an application

19 program.

20

21 7.   The method of claim 1, wherein the function includes a hashing function.

<u>IN THE CLAIMS</u>:

Kindly cancel claims 9 and 19 without prejudice.

Please substitute the following claims for the pending claims with the same number:

1. (Currently amended)   A computer-based method for generating a Downloadable ID to identify a Downloadable, comprising [the steps of]:

        obtaining a Downloadable <u>that includes one or more references to software components required by the Downloadable</u>;

        fetching[, if the Downloadable includes one or more references to a component,] at least one <u>software</u> component identified by the one or more references; and

        performing a function on the Downloadable and [all] <u>the fetched software</u> components [fetched] to generate a Downloadable ID.

2. (Original)   The method of claim 1, wherein the Downloadable includes an applet.

3. (Currently amended)   The method of claim 1, wherein the Downloadable includes an [ActiveX^{TM}] <u>active software</u> control.

4. (Original)   The method of claim 1, wherein the Downloadable includes a plugin.

5. (Original)   The method of claim 1, wherein the Downloadable includes HTML code.

6. (Original)   The method of claim 1, wherein the Downloadable includes an application program.

7. (Original)   The method of claim 1, wherein the function includes a hashing function.

The present invention concerns generation of an ID for mobile code downloaded to a client computer, referred to as a Downloadable. Specifically, the present invention fetches software components required by the Downloadable, and performs a hashing function on the Downloadable together with its fetched components (original specification / page 3, lines 11 – 14; page 15, lines 21 – 24; page 19, line 21 – page 20, line 6; FIG. 8). Thus, for a Java applet, the present invention fetches Java classes identified by the applet bytecode, and generates the Downloadable ID from the applet and the fetched Java classes; and for an ActiveX^{TM} control, the present invention fetches components listed in its .INF file, and generates a Downloadable ID from the ActiveX^{TM} control and the fetched components (original specification / page 9, lines 15 – 18).

An advantage of the present invention is that it produces the same ID for a Downloadable, regardless of which software components are included with the Downloadable and which software components are only referenced (original specification / page 9, lines 18 – 20; page 20, lines 5 and 6). The same Downloadable may be delivered with some required software components included and others missing, and in each case the generated Downloadable ID will be the same. Thus the same Downloadable is recognized through many equivalent guises.

Apperson describes use of digital certificates to authorize privileges for executable code, such as file I/O privileges, network privileges and registry privileges (Apperson / col. 2, lines 41 – 53; col. 4, lines 33 – 43; FIG. 2).

Khare describes Microsoft Corporation's implementation of digital signatures, referred to as Authenticode, as applied to ActiveX controls and Java applets.

In distinction to the present invention, Apperson and Khare do not teach fetching software components of executable code. In order to further clarify this distinction, applicant has amended the claims so as to refer to software components required by the Downloadable.

In paragraph 9 of the Office Action, the Examiner has indicated that Apperson discloses fetching components of a Downloadable. Applicant respectfully submits that Apperson's privilege request code does not include components of a Downloadable, but instead includes a list of "*privileges or*

Regarding amended claims 1, 8, 10, 11, 18 and 20 - 22, fetching software components is described in the original specification on page 9, lines 13 – 18 and FIG. 8.
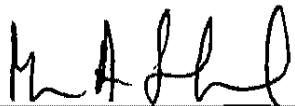
For the foregoing reasons, applicant respectfully submits that the applicable objections and rejections have been overcome and that the claims are in condition for allowance.

If the Examiner has any questions or needs any additional information, the Examiner is invited to telephone the undersigned attorney at (650) 843-3392. If for any reason an insufficient fee has been paid, please charge the insufficiency to Deposit Account No. 05-0150.

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Respectfully submitted,

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