

WHAT IS CLAIMED IS:

1. A method of unifying information and/or tool from different information sources to be operable in a workspace, the method comprising steps of:

(i) retrieving attributes and an associated link of an original information from a first information source and/or attributes and an associated link of an original tool from a second information source by way of a matterizer; and

(ii) modeling a format of the original information into a unified information unit operable in a working environment of the workspace with a first unified data model through the matterizer by re-organizing the attributes and the associated link of the original information, and/or modeling a format of the original tool into a unified tool operable in the working environment of the workspace with a second unified data model through the matterizer by re-organizing the attributes and the associated link of the original tool, wherein the original information is accessible in a workspace through the unified information unit without downloading the original information onto the workspace; and/or wherein the original tool is executable in the workspace through the unified tool without installing the original tool in the workspace.

2. The method according to claim 1, wherein if the attributes accessible from the original information correspond to the attributes to be unified in the unified information unit, the unified information unit is directly produced.

3. The method according to claim 1, wherein if the attributes accessible from the original information do not correspond to the attributes to be unified in the unified information unit, the method further comprises a step (i'), before the step (ii), of allowing the matterizer to firstly re-define

the original information by logically re-organizing the attributes and the associated link of the original information and then convert the original information into a new original information with attributes corresponding to the attributes to be unified in the unified information unit, so that the unified information unit is indirectly produced in the step (ii).

4. The method according to claim 1, wherein the unified information unit includes information of a first type of the original information and a first link indicating where the original information is located in the first information source.

5. The method according to claim 4, wherein the first type is a data type defined according to a data content of the original information obtained through the first link.

6. The method according to claim 4, wherein the first link refers to a uniform resource identifier (URI) at a remote end or a local end, or refers to a block address in a memory while executing a program.

7. The method according to claim 4, wherein the unified tool includes information of a second type of the original tool and a second link indicating where the original tool is located in the second information source.

8. The method according to claim 7, wherein the second type is a component type of the original tool, wherein a physical component essential to the unified tool for proceeding with, plugging in, managing or executing is realized through the component type and the second link.

9. The method according to claim 7, wherein the second link refers to a uniform resource identifier (URI) at a remote end or a local end, or refers to a block address in a memory while executing a program.

10. The method according to claim 7, wherein the unified tool further includes a processible information type for indicating a type of the unified information unit that is processible by the unified tool.

11. The method according to claim 1, wherein if the original tool from the second information source is compatible with the working environment of the workspace, the unified tool is directly produced according to the attributes and the associated link of the original tool, wherein if the original tool from the second information source is incompatible with the working environment of the workspace, the unified tool is indirectly produced via an adapter and/or a software development kit (SDK) of the original tool to drive the original tool, wherein the adapter provides an interface implementation compatible with the workspace.

12. The method according to claim 1, wherein the original information includes a file, a web page, a database row, a policy and/or a rule.

13. The method according to claim 1, wherein the original tool includes a utility, a widget, an agent, an application and/or a service.

14. The method according to claim 1, wherein the matterizer is a means, a device or a program code.

15. A matterizer for unifying information and/or tool from different information sources to be executed in a workspace, the matterizer comprising:

a first means for retrieving attributes and an associated link of an original information from a first information source and/or attributes and an associated link of an original tool from a second information source into the workspace; and

a second means for modeling a format of the original information into a unified information unit operable in a working environment of the workspace by re-organizing the attributes and the associated link of the original information, and/or modeling a format of the original tool into a unified tool operable in the working environment of the workspace by re-organizing the attributes and the associated link of the original tool.

16. A computer program product for unifying information and/or tool from different information sources to be executed in a workspace, the computer program product comprising a program code, wherein while the computer program product is executed in a computer, the program code performs steps of:

(i) retrieving attributes and an associated link of an original information from a first information source and/or attributes and an associated link of an original tool from a second information source into the workspace; and

(ii) modeling a format of the original information into a unified information unit operable in a working environment of the workspace with a first unified data model by re-organizing the attributes and the associated link of the original information, and/or modeling a format of the original tool into a unified tool operable in the working environment of the workspace with a second unified data model by re-organizing the attributes and the associated link of the original tool.

17. The computer program product according to claim 16, wherein if the format of the original information is inoperable in the working environment of the workspace, the method further comprises a step (i'), before the step (ii), of re-defining the format of the original information by logically re-organizing the attributes and the link of the original information into a new original information by way of the matterizer, wherein the attributes of the new original information are included in the unified information unit.

18. The computer program product according to claim 16, wherein if the format of the original tool from the second information source is compatible with the working environment of the workspace (35), the unified tool (34) is directly produced according to the attributes and the associated link of the original tool, wherein if the original tool from the

second information source is incompatible with the working environment of the workspace (45), the unified tool (44) is indirectly produced via an adapter and/or a software development kit (SDK) of the original tool to drive the original tool, wherein the adapter provides an interface implementation compatible with the workspace (45).