

the gateway records 888123 the register information 909120 of container 909, the registers 909120 of 909 are altered 888124 by special instructions from gateway 8081, operating under the rules as described in the paragraph above, and container 909 takes up residence 888125 within container 808.

5 Container 909, now also logically residing (in addition to its original container residence) within container 808, commences to interact 888126 with other containers 606 in 808 under the rules governing container interaction within container 808 as received from gateway 8081 upon transiting that gateway, and under the rules of registers 606120, 909120 of the interacting containers 606, 909, operating under the rules as described in the paragraph above.
10 Through data collection and reporting 700, 600, analysis engine is appraised 888127 of container's 909 new duplicate residence.

Referring now to Fig. 14, the screen interface of the container editor is shown. This interface is a process wherein input is received by the user using the main menu 78 or drop down menu 1419, or using an input device to "drag and drop" or click, causing the system 10 to
15 acquire 1409, edit 1410 or create 1411 a file 1407, container 1408 or digital content 01, to search for 1412, acquire 1413, edit 1414 or create 1415, print 1416, or containerize 1417 a container 100, to select 1402, (or by clicking on register), search 1403, acquire 1404, edit 1405, or create a register 1406 to append or detach registers 120 to those containers, to set register values in those registers 120, to utilize the register editor 125 through 1405 to create new
20 registers, or to 1418 add, detach, acquire a gateway 200 to append or detach to those containers, and utilize the gateway editor 210 through 1418. (See detailed description referring to Fig. 5)

Referring now to Fig. 15, the screen interface of the gateway editor is shown. This interface is a process wherein input is received by the user using the main menu 1501 or drop down menu 1513, or using an input device to "drag and drop" or click, causing the system 10 to
25 search for 1507, acquire 1508, edit 1509 create 1510, print 1511 or containerize 1512 gateways, and causing the system 10 to establish rules by which an individual gateway governs the transiting 1502, entering 1503, exiting 1504 of containers and the interaction of containers within its domain 1505, and external of its domain.1506. (See detailed description referring to Fig. 11).

30 Referring now to Fig. 16, the screen interface of the search interface. This interface is a process wherein input is received by the user using the main menu 1625 or drop down menu

1624, or using an input device to “drag and drop” or click, or by entering text, causing the system 10 to select 1615, search for 1616, acquire 1617, edit 1618 create 1619, print 1620, containerize 1621 (by accessing the container editor 110) or insert 1622 digital search strings into the search box 1623 in order to submit that string to the search engine 320, or causing the system 10 to select 1602, search for 1603, acquire 1604, edit 1605, create 1612, containerize 1613 (by accessing the container editor 110), or insert 1614 search keys (templates that comprise search scope in geographic range, container level, and specific key words or digital strings), or containerized searches (containers 110), into the search box 1623 in order to submit that string to the search engine 320 , or causing the system 10 to set a search range by geographic range 1607, container level 1608, or acquire 1609, edit 1610 or create 1611 a scope template. (templates that comprise search scope in geographic range and, container level.) (See detailed description referring to Fig. 6).

Referring now to Fig. 17, a drawing showing, on an input device or computer screen 24, in any generic (dashed lines) software application program, a drop-down menu link 1403 on a drop down menu 1402 dropping down from a main menu 1401, and a free-floating button link 1404, is shown. When input is received at 1402 or 1403, the system 10 makes available to the user the containerization process or container editor 110. When input is received at drop-down menu link 1405 or a button link 1406, the system 10 makes available to the user the means to enter and interact with this system 10 or this network 201 in any of their aspects. The interfaces 1403, 1404 show a process wherein input is received causing the system 10 to encapsulate content or access the container editor 110. The link also allows the user to encapsulate the page or file on which he is currently working, without selecting content, and if so desired, without accessing the container editor. The interfaces 1405, 1406 show a process wherein input is received causing the system 10 to access or interact with the system 10 or the network 201.

The present invention also includes a search engine 320. Once the key word(s), phrase or digital segment is entered into the search interface 300, or an offered selection chosen on the menu, it is utilized by the search engine 320 to locate the desired site or data.

The search engine employed may be any industry standard search engine such as Verity “Topic”, or Personal Library Software, as used in Dow Jones News Retrieval, or Internet search engines such as Webcrawler, Yahoo, Excite, Infoseek, Alexa or any Internet search engine, or

any new engines to be developed capable of searching for and locating digital segments, whether text, audio, video or graphic.

The present invention also includes an analysis engine 400. Utilizing rules-based analysis, the analysis engine determines the class of storage medium upon which containers reside, the subsets and supersets by which and in which containers encompass and reside within one another, the routes of access to those containers, the historically successful search parameters by which those containers are accessed based upon the identity of the user accessing the containers, and the grade of access chosen by the user in accessing that container 100.

Utilizing a pre-programmed sequence of compilation, and inductive, deductive and derivative analysis, the analysis engine manufactures instructions based upon the analysis of the information submitted by the gateways and the search interface, and submits those instructions to the appropriate execution engine 500 in order to create new information containers, content assemblages, storage schemes, access routes, search templates, and gateway instructions, and others, and to provide informed search options through the search interface to the inquiring user.

The present invention also includes an engine editor 510, that provides a system administrator with a means of editing the operating principles of that search engine, and search template loading in the search interface 300, a reporting and collection means editor 610, 710, governing data reporting 600 and data collection 700 at the gateways 200 as defined by the gateway editor 210 and the register editor 125, a container editor 110 for creating and modifying containers and appending registers to containers, a register editor 125 for creating and modifying container registers and establishing and adjusting the values therein, container gateways 200 with their own storage 205, information containers 100 for holding information and container registers for holding information about specific containers and their history on the network.

The present invention also includes an execution engine 300. Based upon instructions received from the analysis engine 400 utilizing the communication device 26, the execution engine 500 provides search phrases to the search interface 300 based upon initially received inquiries, relocates containers including their programs, data and registers to other directories, drives, computers, networks on other classes of storage mediums, i.e., tape drive, optical drive, CD-ROM, deletes, copies, moves containers to nest within or encompass other containers on other directories, drives, computers, networks to nest within other containers, alters the class of

storage medium upon which containers reside, the subsets and supersets by which and in which containers encompass and reside within one another, the routes of access to those containers, and the historically successful search parameters by which those containers are accessed based upon the identity of the user accessing the container and the grade of access chosen by the user
5 in accessing that container.

The execution engine **400** fulfills the instructions of the analysis search engine **500**, to create new information containers, content sub and superset assemblages, storage schemes, access routes, search templates, gateway **200** instructions and other system functions. The execution engine includes an editor **510** that provides a system manager with a means of editing
10 the operating principles of that search engine, governing data reporting, data collection **700**, search template loading, gateway instructions, and other functions.

The present invention also includes flat or relational databases **900**, used where, and as required.

The present invention also includes a communication device **26** supporting all operations
15 on a network wide basis.

The present invention also includes a search engine **300** to locate the desired site or data. The present invention also includes databases **900**, flat or relational, to serve the other components of the system as needed and where needed.

The present invention also includes editors, by which the user may alter the governing
20 aspects of the system. Editors include, but are not limited to, a container editor **110**, a register editor **125**, a gateway editor **210**, an engine editor **510**, a reporting means editor **610**, a search interface **300**, and a collection means editor **710**.

The present invention also includes specific screen interfaces for the editors, as described in Fig. 14, Fig. 15. and Fig. 16.

The present invention also includes a means for this system **10** and network **201** or
25 **container editor 110** to be accessed from a menu or button selection within any program, as described in Fig. 17.

While the present invention has been described with reference to certain preferred embodiments, those skilled in the art will recognize that various modifications may be provided.
30 For example, both analysis engine and execution engine may be duplicated or modified for distribution at various locations and hierarchical positions in the gateway and container system

throughout the network and designed to work in concert. Also, the physical computing infrastructure may be mainframe, mini, client server or other with various network and distributed computing designs, including digitally supported or based physical or public media, and the components of the system 10, as described in Fig. 1 may be physically distributed through space. Even the contents of a single container may be logically referenced but be physically distributed through the network and reside at multiple storage locations. The whole system may be hierarchically nested within other systems to the nth degree. Whole systems may also be encapsulated within containers. A single container may also encompass a single physical media, such as a CD-ROM disk, programmed with the container, gateway and register design. Gateways may be strategically placed on containers at ingress and/or egress points or may be placed strategically throughout the system for optimal collection and reporting output and gateway system control. Also, the loop of gateway data collection and reporting, analysis engine analysis, instruction, and gateway modification, and execution engine operations may be infinitely nested, from the smallest container of two sub-containers to whole networks holding millions of containers and thousands of levels, with analysis itself nested within the multiple levels. Gateways may be established at both logical and physical junctures such as a satellite uplink point. Also, the provision to establish a unique network identity might be designed to include as of yet unknown computer networks as they arise. The analysis and execution engines may operate on a rules-based, fuzzy logic, artificial intelligence, neural net, or other system not yet devised. Other variations upon and modifications to the preferred embodiments are provided for by the present invention, which is limited only by the following claims. Also, the classification scheme of nested containers, while designated by the container creators, may transform, be utilized otherwise, or be wholly discarded according to usage. Also, hardware configurations, such as the use of RAM or hard drives for storage or lasers for communication may assume myriad forms without altering the essential operation of this invention.

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