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PTO/SB/16 (2-98)
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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

INVENTOR(S)

Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)
RON MARTIN	~~REDLICH~~ REDLICH NEMZOW	2915 FLAMINGO DRIVE MIAMI BEACH, FL 33140-3916

☐ *Additional inventors are being named on the___ separately numbered sheets attached hereto*

TITLE OF THE INVENTION (280 characters max)

ENCRYPTION AND CONTROLLED RELEASE OF INFORMATION

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Address	2915 FLAMINGO DRIVE ~~MIAMI BEACH, FL 33140-3916~~				
Address					
City		State		ZIP	
Country	USA	Telephone	305 864-2744	Fax	305 538-9974

ENCLOSED APPLICATION PARTS *(check all that apply)*

☒ Specification *Number of Pages* 33 ☒ Small Entity Statement

☒ Drawing(s) *Number of Sheets* 21 ☐ Other (specify)

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT *(check one)*

☒ A check or money order is enclosed to cover the filing fees — FILING FEE AMOUNT ($)

☐ The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: [ ]

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☐ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are: _____

Respectfully submitted,

SIGNATURE [signature] Date 11/07/00

TYPED or PRINTED NAME MARTIN NEMZOW

TELEPHONE 305 864-2744

REGISTRATION NO *(if appropriate)*

Docket Number:

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C., 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C., 20231

IPR2023-00971
International Business Machines Corporation v. Digital Doors, Inc.
IBM's Exhibit 1012
Ex. 1012, Page 1

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STATEMENT CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) & 1.27(c))--SMALL BUSINESS CONCERN

Docket Number (Optional)

Applicant, Patentee, or Identifier: _____
Application or Patent No.: _____
Filed or Issued: _____
Title: EXTRACTION AND CONTROLLED RELEASE OF INFORMANT

I hereby state that I am
- ☐ the owner of the small business concern identified below:
- ☐ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF SMALL BUSINESS CONCERN RON REDLICH + MARTIN NEMZOW

ADDRESS OF SMALL BUSINESS CONCERN 2915 FLAMINGO DRIVE MIAMI BEACH, FL 33140-3916

I hereby state that the above identified small business concern qualifies as a small business concern as defined in 13 CFR Part 121 for purposes of paying reduced fees to the United States Patent and Trademark Office. Questions related to size standards for a small business concern may be directed to: Small Business Administration, Size Standards Staff, 409 Third Street, SW, Washington, DC 20416.

I hereby state that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in:

- ☑ the specification filed herewith with title as listed above.
- ☐ the application identified above.
- ☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern, or organization having rights in the invention must file separate statements as to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern, or organization having any rights in the invention is listed below:
- ☑ no such person, concern, or organization exists.
- ☐ each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

NAME OF PERSON SIGNING MARTIN NEMZOW

TITLE OF PERSON IF OTHER THAN OWNER _____

ADDRESS OF PERSON SIGNING 2915 FLAMINGO DRIVE MIAMI BEACH, FL 33140-3916

SIGNATURE _____ DATE 11-07-2000

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Building and testing

The screen images in the figures section demonstrate the machine and process in action, automatically, selecting, extracting data objects from a file. Furthermore, the extracted data objects are transported to a removed memory, and automatically released into a display to recreate the file or versions of the file.

1. Any previous disclosure of conception

None, except for three provisional patent applications by same inventors dated June 27 2000, September 29, 2000, and November 03, 2000.

06624/0502 - 4141900

Inventor: _____ (Ron Redlich) date: 11/07/00
Inventor: _____ (Martin Nemzow) date: 11/07/00

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_____ date: 11/7/00

Extraction And Controlled Release Of Information

Selection, Extraction, Transportation, Storage And Reconstitution

Conception

1.Circumstances

During the process of implementing a financial turnaround consulting business, we discovered the complexity of the business model and the obvious need to redefine and create new systems and methods for doing business. These were neither obvious in the literature or in the business methods of existing competition. We are unaware of prior blueprints for these methods or existing business models. As a result, we built a system and codified the methods and the business process necessary for implementation in the form of this preliminary patent and used this blueprint to structure, implement and test these methods.

2.Purposes and advantages of invention

The invention is a machine and process and its main purposes and advantages are as follows:

- To automatically control selection of data objects within a data stream and release them in a controlled method only to authorized parties.
- To automatically separate data objects within a data stream into two or more digital data streams according to the importance and categorization of contents, through extraction and removal of the prioritized content and its replacement by appropriate placeholders.
- To automatically control selected contents in E-mail, and enable its release in a controlled method only to authorized parties.
- To enable users to leverage the growth in computer and telecommunications connectivity and electronic commerce by reducing security risks.
- To enable users to release documents, digital files, and data streams into closed and opened digital networks with the confidence that important, identifying, and critical contents in that documents, digital files, and data streams is secure and will be seen only by authorized parties.
- To enable real time simultaneous customization and personalization of selected contents within a data stream to different parties, allowing instant display of the selected content or part of it based on, and tailored made to the status of the user or receiving party.
- To secure the important and critical contents of a document or digital file by transporting said contents into a separated data stream and removing said data stream to a removed storage memory, while eradicating any copies, temporary caches, or traces of the removed extracts on the original computer or machine.
- To enable instant return transfer to the display or to another display all or part of extracted content instantly with verification of authorized user.
- To create a projection of the original document, digital file, data objects within a data stream, or variations of it through combined projection of the splinted data streams, while maintaining separation between the data streams.
- To create an alternative method for security, instead of encryption, which is secure, cost effective, less time-consuming, and flexible.
- To enable automatic timed removal of specific content items, automatically or manually selected from a document, digital file, or data objects within a data stream.
- To enable an automatic timed reconstruction (reconstitution) of the said document, digital file, or data objects within a data stream.

Inventor: _____ (Ron Redlich) date: 11/3/00
Inventor: _____ (Martin Nemzow) date: 11/07/00

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The system and method creates a high level of security by automatic selection and removal of critical and prioritized contents from a data objects stream, whether it be a digital document, digital file, database, sound bite, video clip, other structured, or streaming data formats. The system and method enables a controlled release of the extracted data objects, enabling instant display of the instantaneous returned contents, contingent on verification of user identity, access rights, time of operation, location of source and or user, destination of source and or user, and determine threat modes. The system and method delivers high security by removal of the selected prioritized content from memories. The copies and traces of the selected extracted contents are eradicated from the computer memory while the separated extract data stream is transferred to a safe removed storage memory media.The extract, extracts, and any part thereof, will be return transferred to user display as soon as identity and access rights are validated.

A replacement of the extract can also be substituted on-the-fly to provide updated results, misinformation, disinformation, messages, alerts, links (to reports, data mining, search engines, web sites, and hyperlinks understood in the current art), advertisements, and personalization and customization. The said validation can be done instantly by password, challenge questions and answers, remote verification (phone, video, or personal contact with user), or by biometrics means.

The innovation is a system and method for automatically or manually controlled selection, extraction, storage, and release of selected and prioritized information. The system extracts selected information from data streams, in computers, computer networks communication devices, and networks, as well as electronic mail systems. The system and method can reside on a single computer, be distributed across multiple platforms, be distributed across multiple networks, or reside as a remote process (known as a hosted application service process in the state of the art).

The extraction of data objects within data streams includes words, structured data objects, characters, numbers, bullet points, footnotes, prices, images, sound segments, video segments, and selected digital data packets. The extraction is conducted by separating a source (original) data stream into two or more extracts data streams. The different data object extractions are separated into groups reflecting predefined contextual categories and restitution applications (such as to enable customization and personalization for the same or different users). The modified source (original) stream typically contains the majority of data objects of the source stream, whereas the extract streams contains a minority of the data objects which represent selected and categorized information and information deemed to be of prioritized importance.

The extracted categorized data objects are separated into one or more contiguous data streams. The extracted data stream or streams are scattered to one or more storage memory memories. The extracted data can be transported and shuttled between different storage or projection apparatus, as directed automatically by various constraints including: security risk criteria of threats and attacks, sources, targets, users, policies, time of day, and threat modes.

The extracted data is transported to an online removable storage and under extreme security threats to an off-line/off-network, digital or physical vaulted storage. Transport and shuttle is based on the level of security alert. The use and release of the vaulted extractions is controlled by a set of rules or organizational policy which includes the following options among others:

1. A vaulting of some, all, or specific data object extracts for long or short periods of time.
2. Release of extractions into a display, in which the extracted data objects will reconstitute with the modified original data stream, the original data objects stream or original document.
3. Release of extractions into a projection display in order to project with the modified data stream, the original document while maintaining complete separation of the modified source data stream (the source modified by the extraction of data objects and insertion of placeholders) and the extracted data object streams.

Inventor: _____ (Ron Redlich) date: 11/07/00
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_____ date: 11/7/00

4. Release of extractions into a projection display in order to project a reconstitution of the original document, in other words to create altered versions of the original document, while maintaining complete separation of the modified data stream and the extracted streams.
5. In situations of high security threats, release of extractions into another projection display, PDA, floppy disk, paper document a wireless display, an overlay transparency while maintaining logical and physical separation of delivery streams. This will enable working with a representation of the initial source, but not the initial source itself, while understanding the prevalent, critical extracted information without comprising security to the initial source material by exposing sensitive, identifying, or critical information.
6. The distribution of sources, modified sources, or extracts to remote and distributed viewing devices.
7. Enable the ongoing operation of information delivery and display in defiance of known ongoing or unknown security flaws, breaches, or events compromising the general state of security.
8. The delivery of distinct and separate data streams, delivered on the same or different channels and media, each with minimal, limited, or even substantial usefulness in and by itself, that can be overlaid logically or physically to reconstitute the identifying data stream and display. Separate display devices can be used to create a composite image or they can be overlaid to physically separate display devices to reconstitute a useful composite display.

The objective is to create security for the single computer or extended network. When an intruder penetrates preexisting firewalls and other security systems, the data object and streams, digital documents, and digital files which will be valueless and prioritized data objects rendered unidentifiable, the penetration is valueless because the critical strategic information has been exported to a vaulted storage. Competitors or hackers, who learn that a computer or network is protected by the system and method, might decide to attack another target instead. This is comparable to a situation in which a bank robber, who finds out that the bank vault is empty, will most probably look for another bank.

The system and method has a menu of different options including the ability to extract:

- All existing databases on the computer or network.
- All newly loaded, mounted, or integrated data to the computer or network.
- All plug-in memory devices (temporary or permanent) containing data.
- All new and imported data to the computer or network.
- All new work and output created by the computer or network.
- All data being transported in/out of the computer or network including electronic mail.
- All data being transmitted in/out of the computer or network including electronic mail.

The system and method releases the extracted data streams, subject to a controlled-release mechanism and process. The release mechanism is contingent on parameters including; rights to access specific contents, timing criteria, security restrictions, and preset policies. The release of the extracted data objects permits restitution of the source data stream in variations of the source that are full, partial, or modified representations of that source data stream. The release provides for various levels (through user configuration) of separation between the modified source data stream and the extracted data streams. The system enables the maximum grade of security by means of the option of a visual merged projection of said different data streams, while maintaining a strict physical and logical separation between the data streams.

Another object of the system and method is to enhance the survivability of a system, network, or an organization through distribution of critical information. The objective is to enable a network or organization to carry on its critical missions even while under attacked or damaged. Survivability is the ability of a system to execute its mission and provide critical operational services during and after a successful intrusion or damage. Providing critical operational services includes maintaining availability of information and data such as credit card numbers, names, phone numbers, transaction amounts, shipment details without compromising the security of the information and data.

Inventor: _____ (Ron Redlich) date: 11/7/00
Inventor: _____ (Martin Nemzow) date: 11/07/00

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The invention is designed to enable a network to adapt to ongoing attack and react in a way that permits critical missions to continue. With the current state of the art, when firewalls or other security measures are compromised, no real obstacles curtail or hinder intruders. The system and method is very adaptable and flexible to provide additional layers of security, privacy, anonymity, redundancy, and backup through the selection, extraction, storage, transportation, and reconstruction processes. The dynamic architecture of the invention enables it to conduct an automatic real time configuration of its extraction/transport/recovery activities, in response to the challenge of attacks.

The invention's survivability modes enable:

- Presetting of rules for computer or network functioning under attack or alert.
- An automatic assessment of damage and automatic reaction to enable functionality of critical missions.

Another object of this invention is as a system and method for automatically creating customized and personalized versions of a document, data object, or data stream. In real time, simultaneous versions of the original are created and altered, then disseminated based on the status of the different users and their access privileges. The system and method enables content management and control by automatically locating content items prioritized by importance, transporting them to a secure memory, and releasing them under explicit controls or preset rules.

Another object of the invention is as a system and method for control, analysis and management of important and prioritized information within documents, files, data object, and data streams. The system and method, enables the processing of all data objects at the time in which they are created or imported into the system. The said early stage processing, enables early stage inventorying of prioritized contents as well as early stage pattern recognition. Extracting critical information, such as credit card numbers, last names, first names, social security numbers, phones numbers, transaction dollar amounts and addresses, enables the system and method to aggregate data in categories and analyze the data in different optional methodologies including pattern recognition.

Another object of the invention is as a system and method for comprehensive monitoring of various activities including business activities in real time. With this level of detail, the system and method becomes a management information tool and information/data command and control center. The said system and method can include an alert system, which in effect creates a real time apparatus for command and control of the systems activities. In real time, and at any point in time, the user can get a comprehensive view of different activities including:

- How many transactions are being processed, their content, their context, identity of the involved parties identity, their profiles, and the personnel involved.
- How much money is being transacted.
- When, in terms of dates, relevant to the transaction.
- Where, in terms of geographical location, the transactions are taking place.
- Where, in terms of geographical location, monies or goods are being transferred.
- Which departments in the organization are involved.

3:Description:

The invention is a machine consisting of the following elements:

1. A machine for automatically selecting, extracting data objects from an existing data objects stream, and automatically releasing selected extract data objects to a display, wherein said means comprising:

Inventor: _____ (Ron Redlich) date: 11/07/00
Inventor: _____ (Martin Nemzow) date: 11/07/07

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A. A digital processing means for automatically selecting data object candidates for extraction from an existing data object stream located in a first memory.
B. A digital processing means for automatically extracting selected data objects from an existing data object stream located in a first memory.
C. A digital means of transporting extracted data objects to a second memory.
D. A digital means for controlled release of extracted data objects to a display and other outputs.
Whereby automatically selected contents are separated and removed from original document, file and data stream, and thence transported to secured storage memory and controlled released based on security, preselected categories, rules and other triggers.

2. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital means for storing a first dictionary of characters and data objects.
B. A digital means responsive to said dictionary for use as a filtering condition.
C. A digital means for extracting data objects not mentioned in said dictionary.

3. A machine for automatically selecting and extracting defined in claim 2, wherein said means comprising:

A. A digital means for storing a second dictionary of characters and data objects.
B. A digital means responsive to said second dictionary for use as a filtering condition.
C. A digital means for extracting any data object mentioned in said second dictionary.

4. A machine for automatically selecting and extracting defined in claim 3, wherein said means comprising:

A. A digital means for accepting additional data objects into dictionaries.
B. A digital means enabling the adding of other dictionaries with said first and second dictionaries.
C. Providing a digital means for customized dictionaries.

5. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for tagging and serializing derived selected data object extractions.

6. A machine for automatically selecting and extracting as defined in claim 5, wherein said means comprising:

A. A digital filtering means for automatically sorting of said selected extracted data objects according to separate data objects categories.
B. A digital processing means for labeling said sorted, selected data objects, with their respective categories.

7. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for automatically creating new data object categories, for the said sorting process.

Inventor: Ron Redlich (Ron Redlich) date: 11/07/00
Inventor: Martin Nemzow (Martin Nemzow) date: 11/07/00

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Nicholas Basil date: 11/7/00
A Wells date: 11/7/00

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8. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital means for substantially erasing, from all memories except second memory, all copies and links and traces of removed selected extracted digital objects.

9. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital means for substantially eradicating from all memories except for second memory, all links, copies, and traces, to separated and extracted data objects. Said eradication includes termination of related delivery means, defragmentation of associated files, overwriting relevant files, cleaning memories, and caches.

10. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital means for substituting the extracted selected data objects with other data objects.

11. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital means for substituting the extracted selected data objects with other data object placeholders including; serialization, characters, replacement of information with other information, messages, alerts, bar codes, links to other data, null sets, URLs, and web site addresses

12. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for configuring the scope of file selection in the automatic selecting and extracting process.

13. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for configuration of the scope of computer files selection for the automatic selecting and extracting process based on: file status, timing, preset rules and user's specific selection.
B. A digital processing means for configuration of the scope of computer files selection for the automatic selecting and extracting process based on verifying of file existence, checking for recent activity, checking whether recent separation and extraction activity of data objects is up to date in accordance to modes and preferences

14. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for establishing which computers, and digital machines in a network will be connected, accessible and interacting with said extracting machine.

Inventor: Ron Redlich (Ron Redlich) date: 11/07/00
Inventor: (Martin Nemzow) date: 11/07/00

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15. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

    A. A digital processing means for initiating the selecting and extracting of data objects, triggered by preset rules for machine configuration.

16. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

    A. A digital processing means for initiating selecting and extracting of data objects, triggered by security alerts including threat mode and attack mode.

17. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

    A. A digital processing means for choosing the parameters for selecting and extracting of data objects, triggered by preset rules for machine configuration.

18. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

    A. A digital processing means for choosing the parameters for the selecting and extracting of data objects, triggered by security alerts including threat mode and attack mode.

19. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

    A. A digital processing means for interpreting the output of security intrusion detection means.
    B. A digital processing means triggering processing by said machine based on interpretation of output of security alerts and output of intrusion detection means.

20. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising

    A. A digital means for removing from a data objects stream selected data objects including digital records, elements of records, characters

21. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

    A. A digital means for removing from a data objects stream selected data objects including: digital graphic images and segments of graphic images.

22. A machine for automatically selecting and extracting as defined in claim 1, herein said means comprising:

    A. A digital means for removing from a data objects stream selected data objects including: digitized sound.

23. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising

Inventor: Ron Redlich (Ron Redlich) date: 11/07/00
Inventor: [signature] (Martin Nemzow) date: 11/08/00

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[signature] date: 11/7/00

A. A digital means for removing from a data objects stream selected data objects including: digitized video images and segments of video images.

24. A machine for automatically customizing, automatically selected content items, within in a data objects stream, wherein said means comprising:

A. A digital data means for sorting extracted selected data objects into predefined contextual categories
B. A digital data means for assigning an extracted selected data objects a data objects category.
Whereby items of the automatically selected content are sorted into prearranged defined categories such as: credit card numbers, social security numbers, last name first name addresses.
Whereby the selected content items are sorted according to categories, and are available for release for display to users, according to user status and clearance.

25. A machine for automatically customizing selected content as defined in claim 24, wherein said means comprising:

A. A digital processing means for sorting extracted data objects into predefined categories.
B. A digital processing means for identifying which extracted data objects should be released to a user.
Whereby the selected content items are sorted according to categories, and are available for release for display to users, according to predefined rules set.

26. A machine for automatically customizing selected content, as defined in claim 25, wherein said means comprising:

A. A digital processing means enabling the altering of the selected data objects.
Whereby different items of the automatic selected contents will be altered and available for display to users according to user status and clearance.

27. A machine for automatically customizing selected content as defined in claim 26, wherein said means comprising:

A. A digital processing means for enabling different extract data objects to be released to different users.
Whereby different items of the automatic selected contents will be available for release to a user display according to a predefined rule set.

28. A machine for automatically customizing selected contents as defined in claim 27, wherein said means comprising:

A. A digital processing means for selecting which extracted data objects are targeted as descriptors for information searching.
B. A digital processing means for presenting the targeted extracted data object contents to online search engines.
C. A digital processing means for automatically presenting search results to authorized users.
Whereby different items of the automatic selected contents are automatically targeted and presented to search engines and the search results and the items searched are available for display to users according to user status and clearance.

Inventor: _____ (Ron Redlich) date: 11/07/00
Inventor: _____ (Martin Nemzow) date: 11/07/00

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29. A machine for automatically customizing selected contents as defined in claim 28, wherein said means comprising:

    A. A digital processing means for scoring and ranking contextual relevance of said search engine results.
    B. A digital processing means for presenting and linking, in a display, said scored and ranked search engines results with the extracted data objects

    Whereby search engine results are scored and ranked to achieve highest contextual relevance to the selected content items and available for display to users according to their status and clearance.

    Whereby there is no need for user to actively take any action like highlighting words, typing characters, the machine will automatically trigger searches for information and URL's relevant to the selected content items.

    Whereby there is no need for user to wait for search results relevant to the selected content items since the system automatically instructs said searches, at an early stage.

30. A machine for automatically customizing selected content s as defined in claim 29, wherein said means comprising:

    A. A digital processing means enabling voice recognition and its presentation in a digitized form enabling the said machine to carry out its processes.

31. A machine for automatically customizing selected content s as defined in claim 30, wherein said means comprising:

    A. A digital processing means for recognizing patterns of the selected and prioritized data objects within the data streams and assigning prioritization to various selected data content items.

32. A machine for automatically customizing selected content s as defined in claim 31, wherein said means comprising:

    A. A digital processing means for submitting targeted selected extracts of data objects, to information search engines for display of relevant findings including: text, graphics, audio and video.

33. A machine for automatically customizing selected content s as defined in claim 32, wherein said means comprising:

    A. A digital processing means for submitting targeted selected extracts to various machines and appliances for possible triggering of responses.

34. A machine for automatically transporting selected data objects to other memories and between memories for achieving higher level of security comprising:

    A. A digital processing means for selection of destination storage memory, triggered automatically by various preset criteria.
    B. A digital processing means for transport of said data objects to said selected storage memories, triggered automatically by various preset criteria and manually.

35. A machine for automatically transporting selected data objects as defined in claim 34, wherein said means comprising:

Inventor: _____ (Ron Redlich) date: 11/07/00
Inventor: _____ (Martin Nemzow) date: 11/07/00

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A. A remote memory storage media.

36. A machine for automatically transporting selected data objects as defined in claim 35, wherein said means comprising:

A. An offline memory storage media.

37. A machine for automatically transporting selected data objects as defined in claim 36, wherein said means comprising:

A. An Internet- and network-based memory storage media.

38. A machine for automatically transporting selected data objects as defined in claim 37, wherein said means comprising:

A. A copy and backup apparatus.

39. A machine for automatically transporting selected data objects as defined in claim 38, wherein said means comprising:

A. A digital means for encrypting and decrypting the data objects transported to storage memories.

40. A machine for automatically transporting selected data objects as defined in claim 39, wherein said means comprising:

A. A digital processing means for mapping the location and capabilities of the different connected and available memories.
B. A digital processing means for mapping attacks, damage, and threats to the connected and available storage memories.

41. A machine for automatically transporting selected data objects as defined in claim 40, wherein said means comprising:

A. A digital means for triggering the bypass of damaged and threatened storage memories.

42. A machine for automatically transporting selected data objects as defined in claim 41, wherein said means comprising:

A. A digital processing means for automatically configuring the hierarchy for connectivity between the data objects to be transported, and the storage memories according to user needs, preset rules, and security constraints.

43. A machine for automatically transporting selected data objects as defined in claim 42, wherein said means comprising:

A. A digital processing means controlling the release of data objects from said storage memories based on user rights for access to the stored content.
B. A digital processing means controlling the release of data objects from said storage memories based on security constraints including intrusion threat and attack.

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44. A machine for automatically transporting selected data objects as defined in claim 43, wherein said means comprising:

    A. A digital processing means for camouflaging data objects files by changing file identification structures.

45. A machine for automatically transporting selected data objects as defined in claim 44, wherein said means comprising:

    A. A digital processing means for camouflaging data objects files by removing root directory.
    B. A digital processing means for camouflaging data objects files by removing name of file, links, references, shortcuts, and names of directory.

43. A machine for automatically controlled release of automatically selected extracted data objects, from a data object stream, into a display, wherein said means comprising:

    A. A digital reading means for reading the selected extracted data object's assigned category.
    B. A digital means for identifying user access rights to the specific selected extracted data objects based the data object category.
    C. A digital processing means for synchronized controlled release of selected data objects from storage memory according to user access rights and privileges.
    Whereby selected data objects are released from a memory into a user's display based on user's status and access privileges to such content.

44. A machine for automatically controlled release of extracted data objects, as defined in claim 43, wherein said means comprising:

    A. A digital processing means for controlled release of selected extracted data objects based on access time.

45. A machine for automatically controlled release of extracted data objects, as defined in claim 44, wherein said means comprising:

    A. A digital processing means for limiting the timed access to the selected extracted data objects.

46. A machine for automatically controlled release of selected data as defined in claim 45 wherein said means, wherein said means comprising:

    A. A digital processing means for release of altered extracted data objects to the user display.

47. A machine for automaticaly controlled release of selected data as defined in claim 46, wherein said means, wherein said means comprising:

    A. A digital means for release of selected extracted data objects with added data objects to the user display.

48. A machine for automatically controlled release of selected data as defined in claim 47, wherein said means comprising:

    A. A manual means for enabling and disabling the release of the selected extracted data objects.

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49. A machine for automatically-controlled release of selected data as defined in claim 48, wherein said means comprising:

    A. A digital processing means enabling user to indicate desired data objects as candidates for extraction.

50. A machine for automatically-controlled release of physically separated data streams for projection as a combined data objects stream while maintaining full physical separation, wherein said means comprising:

    A. A digital processing means for releasing data object streams into display means.
    B. A digital processing means for releasing data object streams into projection means.

51. A machine for automatically-controlled release of logically separated data objects streams for projection as a combined data objects stream while maintaining full logical separation, wherein said means comprising:

    A. A digital processing means for releasing data object streams into display means.
    B. A digital processing means for releasing data object streams into projection means.

52. A machine for automatically display of prioritized extracted data objects in combination with the modified original data objects stream creating various displays, while maintaining substantial separation between the data streams, wherein said means comprising:

    A. A digital processing means for automatically selecting data object candidates for extraction from an existing data objects stream located in a first memory.
    B. A digital processing means for automatically extracting the selected data objects from an existing data objects stream located in a first memory.
    C. Providing a digital means of transporting extracted data objects to a second memory.
    D. A digital means for controlled release of extracted data objects to a display.

    Whereby data objects in said modified original data stream and the separated, selected, extracts data stream are presented in a combination, to create various displays including, display like original data stream, while maintaining a desired level of separation between the data streams.

53. A machine for automatically display as defined in claim 52, wherein said means comprising:

    A. A digital process means for creating a total physical separation between selected extracts data objects stream and other streams, in said combined display process.

54. A machine for automatically display as defined in claim 53, wherein said means comprising:

    A. A digital process means for creating a total logical separation between selected extracts data objects stream and other data objects streams, in said combined projection and display process.

55. A machine for automatically display as defined in claim 54, wherein said means comprising:

    A. A digital display means for displaying released, selected, extracted data objects including a wireless display means.

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56. A machine for automatically display as defined in claim 55, wherein said means comprising:

A. A digital processing means for processing different, versions of the reconstructed original data stream, according to different user's classifications.

57. A machine for automatically display as defined in claim 56, wherein said means comprising:

A. A digital processing means for processing real time, simultaneous, displays of different versions of reconstructed original data stream, according to different users' classifications.

58. A machine for automatically display as defined in claim 57, wherein said means comprising:

A. A digital display means to project together, the modified original data objects stream, with selected data objects in the extracted data streams to create a joint presentation, maintaining desired level of separation between the modified original data objects stream and the selected extracted data objects.

59. A machine for automatically display as defined in claim 58, wherein said means comprising:

A. A hardware apparatus to project a joint presentation of prioritized, selected, separated, extracted data objects streams, maintaining high level of separation between the modified original data objects stream and the prioritized extracted data objects.

60. A machine for automatically display as defined in claim 59, wherein said means comprising:

A. Hardware apparatus for overlaying the output of said prioritized extracted data objects with the output of the modified original data object stream to create a joint presentation while maintaining high level of separation between the modified original data object stream and the prioritized extracted data objects.

61. A machine for automatically display defined in claim 60, wherein said means comprising:

A. A digital display in which said separate extracted data object streams can be jointly presented in real time while maintaining separation between the data streams.
B. A wireless connected display in which said separate data streams can be presented separately and jointly presented while maintaining desired separation between the data streams.

62. A machine for automatically display defined in claim 61, wherein said means comprising

A. A digital processing means for anticopying based on configuration of color contrasts in the display.

63. A machine for automatically display defined in claim 62, wherein said means comprising:

A. A digital processing means for anticopying based on configuration of font sizes.

64. A machine for automatically selecting, extracting, storing and releasing extracted data objects, with security alerts triggering, wherein said means comprising:

A. A digital processing means for selecting and extracting data objects from a stream of digital data objects.

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B. A digital processing means for storing said selected data objects.
C. A digital processing means for releasing said selected data objects in a controlled method.
D. A set of rules enabling the automatic triggering of various said machine's functions in different situations.

65. A machine with security alerts triggering as defined in claim 64, wherein said means comprising:

A. A data processing means for receiving and automatically interpreting security alert inputs.
B. A set of rules enabling the automatic triggering of various said machine functions in a threat working mode.
C. A digital processing means for automatically triggering a higher level of said machine activities for increased security.

66. A machine with security alerts triggering as defined in claim 65, wherein said means comprising:

A. A data processing means for receiving and automatically interpreting security alert inputs.
B. A set of rules enabling the automatic triggering of various said machine functions in an attack working mode.
C. A digital processing means for automatically triggering the highest level of said machine activities for increased security.

67. A machine with security alerts triggering as defined in claim 66, wherein said means comprising:

A. A digital-processing audit means for tracing user access

68. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A physical hardware apparatus providing a physical layer of security, and protection against tampering.

69. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for reporting logins attempted, logins, logouts, terminations, and failures.

70. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for mapping and reporting location and history of data object streams and selected data object extract s streams processed by said machine.

71. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for intrusion detection determining intrusion based on various file changes.

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72. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means enabling providing said applications and services as a third party provider over networks and Internet.

73. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means enabling providing said applications and services for electronic commerce over networks and Internet.

74. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means enabling providing said applications and services for electronic mail between computers, networks, and Internet.

75. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means enabling providing said applications and services for electronic mail between computers, networks, and Internet.
B. A digital processing means enabling receiver of electronic mail to receive the selected extracted data object stream by using an additional identifying means.

76. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for presenting information and charging payment for release of data object extracts.

77. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for presenting information and releasing of selected data object extracts predicated upon fulfillment of specific conditions.

78. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means enabling overriding of machine processes by authorized users.

79. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for adding encryption to output data objects streams.

80. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

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A. A digital processing means for enabling manual selection of said machine processing including: automatic machine processing.
B. A digital processing means for enabling manual selection of said machine processing
C. Including: semi-automatic machine processing with capability to influence the machine's processing by moving tools such as levers, bars, buttons, check boxes, sliders, drag and drop, and voice enablement.
D. A digital processing means for enabling manual selection of said machine processing including manual control of said machine processing.

81. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for controlling access to said machine and its various outputs based on user identification.

82. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for controlling access to said machine and its various outputs based on user identification through biometrics authentication.

83. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for controlling access to said machine and its various outputs based on timed challenge questions validating user identity.

84. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for allowing continuing access to said machine and its various outputs based on timed challenge questions validating user identity.

85. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for controlling access to said machine and its various outputs based on identify friend or foe validating user identity.

86. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for allowing continuing access to said machine and its various outputs based on identify friend or foe validating user identity.

87. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for limiting different users access to said machine for specific time periods.

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88. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising:

A. A digital processing means for limiting users access to data object extracts for specific time periods.

89. A machine for automatically selecting and extracting as defined in claim 1, wherein said means comprising

A. A digital processing means for limiting users access to different machine functions at specific time periods.

The invention is also a process and a business method comprising:

90. A process for automatically selecting and extracting data objects from an existing data object stream where automatically releasing selected extract data objects to a display, wherein said means comprising:

A. Providing a digital processing means for automatically selecting data objects candidates for extraction from an existing data objects stream located in a first memory.
B. Providing a digital processing means for automatically extracting selected data objects from an existing data objects stream located in a first memory.
C. Providing a digital means of transporting extracted data objects to a second memory
D. Providing a digital means for controlled release of extracted data objects to a display.
Whereby automatically selected contents can be separated and removed from original document, file or data stream, transported to secured storage memory and controlled released based on security, preselected categories, rules and other triggers

91. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital means for storing a first dictionary of, characters and data objects
B. Providing a digital means responsive to said dictionary for use as a filtering condition
C. Providing a digital means for extracting data objects not mentioned in said dictionary

92. A process for automatically selecting and extracting defined in claim 91, wherein said means comprising:

A. Providing a digital means for storing a second dictionary of, characters and data objects
B. Providing a digital means responsive to said second dictionary for use as a filtering condition
C. Providing a digital means for extracting any data object mentioned in said second dictionary.

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93. A process for automatically selecting and extracting defined in claim 92, wherein said means comprising:

    A. Providing a digital means for accepting additional data objects into dictionaries.
    B. Providing a digital means enabling the adding of other dictionaries with said first and second dictionaries.
    C. Providing a digital means for customizing dictionaries for specific content fields.

94. A process for automatically selecting and extracting as defined in claim 93, wherein said means comprising:

    A. Providing a digital processing means for tagging and serializing derived selected data object extractions

95. A process for automatically selecting and extracting as defined in claim 94, wherein said means comprising:

    A. Providing a digital filtering means for automatically sorting of said selected extracted data objects according to separate data objects categories.
    B. Providing a digital processing means for labeling said sorted, selected data objects, with their respective categories

96. A process for automatically selecting and extracting, as defined in claim 95, wherein said means comprising:

    A. Providing a digital processing means for automatically creating new, data object categories for the said sorting, process.

97. A process for automatically selecting and extracting as defined in claim 96, wherein said means comprising:

    A. Providing a digital means for substantially erasing, from all memories except second memory, all copies and links and traces of removed selected extracted digital objects.

98. A process for automatically selecting and extracting as defined in claim 97, wherein said means comprising:

    A. Providing a digital means for substantially eradicating from all memories except second memory, all links, copies, traces, to separated and extracted data objects. Said eradication includes: termination of related delivery means, defragmenting associated files, overwriting relevant files, cleaning memories, and cashes.

99. A process for automatically selecting and extracting as defined in claim 98, wherein said means comprising:

    A. Providing a digital means for substituting the extracted selected data objects with other data objects placeholders.

100. A process for automatically selecting and extracting as defined in claim 99, wherein said means comprising:

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A. Providing a digital means for substituting the extracted selected data objects with other data objects placeholders including: serialization characters, replacement of information, bar codes null sets, URL's, and web site addresses.

101. A process for automatically selecting and extracting as defined in claim 100, wherein said means comprising:

A. Providing a digital processing means for configuration of the scope of computer files selection for the automatic selecting and extracting process.

102. A process for automatically selecting and extracting as defined in claim 101, wherein said means comprising:

A. Providing a digital processing means for configuration of the scope of computer files selection for the automatic selecting and extracting process based on file status, timing, preset rules and user-specific selection.
B. Providing a digital processing means for configuration of the scope of computer file selection for the automatically selecting and extracting process based on verifying of file existence, checking for recent activity, checking whether recent separation and extraction activity of data objects is up to date in accordance to modes and preferences.

103. A process for automatically selecting and extracting as defined in claim 102, wherein said means comprising:

A. Providing a digital processing means for establishing which computers, and digital process in a network will be connected, accessible and interacting with said extracting process.

104. A process for automatically selecting and extracting as defined in claim 103, wherein said means comprising:

A. Providing a digital processing means for initiating the selecting and extracting of data objects, triggered by preset rules for process configuration.

105. A process for automatically selecting and extracting as defined in claim 104, wherein said means comprising:

A. Providing a digital processing means for initiating selecting and extracting of data objects, triggered by security alerts including threat mode and attack mode.

106. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for choosing the parameters for the selecting and extracting of data objects, triggered by preset rules for process configuration.

107. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for choosing the parameters for the selecting and extracting of data objects, triggered by security alerts including threat mode and attack mode.

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108. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for interpreting the output of security intrusion detection means.
B. Providing a digital processing means triggering processing by said process based on interpretation of output of security alerts and output of intrusion detection means.

109. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising

A. Providing a digital means for removing from a data object stream selected data objects including: digital records, elements of records, characters.

110. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital means for removing from a data object stream selected data objects including digital graphic images and segments of graphic images.

111. A process for automatically selecting and extracting as defined in claim 90, herein said means comprising:

A. Providing a digital means for removing from a data object stream selected data objects including digitized sound.

112. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising

A. Providing a digital means for removing from a data object stream selected data objects including: digitized video images and segments of video images.

113. A process for automatically customizing, automatically selected content items, within in a data objects stream, wherein said means comprising:

A. Providing a digital data means for sorting extracted selected data objects into predefined contextual categories.
B. Providing a digital data means for assigning an extracted selected data objects to a data object category.
Whereby items of the automatically selected content are sorted into prearranged defined categories such as: credit card numbers, social security numbers, last name first name addresses.
Whereby the selected content items are sorted out according to categories, and are available for release for display to users, according to the user's status and clearance.

114. A process for automatically customizing selected content as defined in claim 113, wherein said means comprising:

A. Providing a digital processing means for sorting extracted data objects into predefined categories.
B. Providing a digital processing means for identifying which extracted data objects should be released to which user.

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Whereby the selected content items are sorted out according to categories, and are available for release for display to users, according to predefined rules set.

115. A process for automatically customizing selected content as defined in claim 114, wherein said means comprising:

A. Providing a digital processing means enabling the altering of the selected data objects
Whereby different items of the automatic selected contents will be altered and available for display to users according to the user's status and clearance.

116. A process for automatically customizing selected content as defined in claim 115, wherein said means comprising:

A. Providing a digital processing means for enabling different extracted data objects to be released to different users.
Whereby different items of the automatic selected contents will be available for release to user display according to a predefined rule set.

117. A process for automatically customizing selected contents as defined in claim 116, wherein said means comprising:

A. Providing a digital processing means for selecting which extracted data objects would be targeted as descriptors for information searching.
B. providing a digital processing means for presenting the targeted extracted data object contents to online search engines.
C. Providing a digital processing means for automatically presenting search results to authorized users.
Whereby different items of the automatic selected contents would be automatically targeted and presented to search engines and the search results and the items searched will be available for display to users according to the user's status and clearance.

118.A process for automatically customizing selected contents as defined in claim 117, wherein said means comprising:

A. Providing a digital processing means for scoring and ranking contextual relevance of said search engine results.
B. Providing a digital processing means for presenting and linking, in a display, said scored and ranked search engines results with the extracted data objects
Whereby search engine results are scored and ranked to achieve highest contextual relevance to the selected content items and available for display to users according to their status and clearance.
Whereby there is no need for user to actively take any action like highlighting words, typing characters, the process will automatically trigger searches for information and URLs which are relevant to the selected content items.
Whereby there is no need for user to wait for search results relevant to the selected content items because the system automatically instructs said searches, at an early stage.

119. A process for automatically customizing selected content s as defined in claim 118, wherein said means comprising:

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A. Providing digital processing means enabling voice recognition and its presentation in a digitized form enabling the said process to carry out its processes.

120. A process for automatically customizing selected content s as defined in claim 119, wherein said means comprising:

A. Providing a digital processing means for recognizing patterns of the selected data content items and assigning prioritization to various selected data content items.

121. A process for automatically customizing selected content s as defined in claim 120, wherein said means comprising:

A. Providing a digital processing means for submitting targeted selected extracts of contents, to information search engines for display of relevant findings including: text, graphics, audio and video.

122. A process for automatically customizing selected content s as defined in claim 121, wherein said means comprising:

A. Providing a digital processing means for submitting targeted selected extracts of content to various process and appliances for possible triggering of various reactions.

123. A process for automatically transporting selected data objects to other memories, and between memories for achieving higher level of security, wherein said means comprising:

A. Providing a digital processing means for selection of destination storage memories, triggered automatically by various preset criteria.
B. Providing a digital processing means for transport of said data objects to said selected storage memories, triggered automatically by various preset criteria and manually

124. A process for automatically transporting selected data objects as defined in claim 123, wherein said means comprising:

A. Providing a remote memory storage media.

125. A process for automatically transporting selected data objects as defined in claim 124, wherein said means comprising:

A. Providing an offline memory storage media.

126. A process for automatically transporting selected data objects as defined in claim 125, wherein said means comprising:

A. Providing an Internet and network based memory storage media

127. A process for automatically transporting selected data objects as defined in claim 126, wherein said means comprising:

A. Providing a copy and backup apparatus.

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128. A process for automatically transporting selected data objects as defined in claim 127, wherein said means comprising:

A. Providing a digital means for encrypting and decrypting the data objects transported to storage memories.

129. A process for automatically transporting selected data objects as defined in claim 128, wherein said means comprising:

A. Providing a digital processing means for mapping the location and capabilities of the different connected and available memories.
B. Providing a digital processing means for mapping damage and threats to the connected and available storage memories.

130. A process for automatically transporting selected data objects as defined in claim 129, wherein said means comprising:

A. Providing a digital means for triggering bypassing of damaged and threatened storage memories.

131. A process for automatically transporting selected data objects as defined in claim 130, wherein said means comprising:

A. Providing a digital processing means for automatically configuring the hierarchy for connectivity between the data objects to be transported, and the storage memories according to user needs, preset rules, and security constraints.

132. A process for automatically transporting selected data objects as defined in claim 131, wherein said means comprising:

A. Providing a digital processing means controlling the release of data objects from said storage memories based on user's rights of access to the stored content.
B. Providing a digital processing means controlling the release of data objects from said storage memories based on security constraints, including intrusion threat and attack.

133. A process for automatically transporting selected data objects as defined in claim 132, wherein said means comprising:

A. Providing a digital processing means for camouflaging data object file identity.

134. A process for automatically transporting selected data objects as defined in claim 133, wherein said means comprising:

A. Providing a digital processing means for camouflaging data objects files by removing file's root directory.
B. Providing a digital processing means for camouflaging data objects files by removing name of file, links, references, shortcuts, and name of directory.

135. A process for automatically controlled release of automatically selected extracted data objects, from a data object stream, into a display, wherein said means comprising:

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A. Providing a digital reading means for reading the selected extracted data object's assigned category.

B. Providing a digital means for identifying user access rights to the specific selected extracted data object items based the data object category.

C. Providing a digital processing means for synchronized controlled release of selected data objects from storage memory according to user access rights and privileges.

Whereby selected data objects are released from a memory into a user's display based on user status and access privileges to such content.

136. A process for automatically controlled release extracted data objects as defined in claim 135, wherein said means comprising:

A. Providing a digital processing means for controlled release of selected extracted data objects based on access time.

137. A process for automatically controlled release of extracted data objects as defined in claim 136, wherein said means comprising:

A. Providing a digital processing means for limiting the timed access to the selected extracted data objects.

138. A process for automatically controlled release of selected data as defined in claim 137, wherein said means comprising:

A. Providing a digital processing means for release of altered extracted data objects to user display.

139. A process for automatically controlled release of selected data as defined in claim 138, wherein said means, wherein said means comprising:

A. Providing a digital means for release of selected extracted data objects with added data objects to user display.

140. A process for automatically controlled release of selected data as defined in claim 139, wherein said means comprising:

A. Providing a manual means for enabling and disabling the release of the selected extracted data objects.

141. A process for automatically controlled release of selected data as defined in claim 140, wherein said means comprising:

A. Providing a digital processing means enabling user to highlight desired data objects as candidates for extraction.

142 .A process for automatically release of physically separated data objects streams for projection as a combined data objects stream while maintaining full physical separation comprising:

A. Providing a digital processing means for releasing data object streams into display means.

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B. Providing a digital processing means for releasing data object streams into projection means.

143. A process for automatically release of logically separated data objects streams for projection as a combined data objects stream while maintaining full logical separation, wherein said means comprising:

A. Providing a digital processing means for releasing data object streams into display means.
B. Providing a digital processing means for releasing data object streams into projection means.

144. A process for automatically display of selected separated extracted data objects in combination with the modified original data objects stream creating various displays, while maintaining substantial separation between the data streams comprising:

A. Providing a digital processing means for automatically selecting data object candidates for extraction from an existing data objects stream located in a first memory.
B. Providing a digital processing means for automatically extracting the selected data objects from an existing data objects stream located in a first memory.
C. Providing a digital means of transporting extracted data objects to a second memory.
D. Providing a digital means for controlled release of extracted data objects to a display Whereby data objects in said modified original data stream and the separated, selected, extracts data stream are presented in a combination, to create various displays including, display like original data stream, while maintaining a desired level of separation between the data streams.

145. A process for automatically display as defined in claim 144, wherein said means comprising:

A. Providing a digital process means for creating a total physical separation between selected extracts data objects stream and other streams, in said combined display process.

146. A process for automatically display as defined in claim 145, wherein said means comprising:

A. Providing a digital process means for creating a total logical separation between selected extracts data objects stream and other data objects streams, in said combined projection and display process.

147. A process for automatically display as defined in claim 146, wherein said means comprising

A. Providing a digital display means for displaying released, selected, extracted data objects including a wireless display means.

148. A process for automatically display as defined in claim 147, wherein said means comprising:

A. Providing a digital processing means for processing different, versions of the reconstructed original data stream, according to different user's classifications.

149. A process for automatically display as defined in claim 148, wherein said means comprising:

A. Providing a digital processing means for processing real time, simultaneous, displays of different versions of reconstructed original data stream, according to different user classifications.

150. A process for automatically display as defined in claim 1,49 wherein said means comprising:

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Inventor: _____ (Martin Nemzow) date: 11/07/00

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A. Providing a digital display means to project together, the modified original data objects stream, with selected data objects in the extracted data streams to create a joint presentation, maintaining desired level of separation between the modified original data objects stream and the selected extracted data objects.

151. A process for automatically display as defined in claim 150, wherein said means comprising:

A. Providing a hardware apparatus to project a joint presentation of separated, selected, extracted data objects streams, maintaining high level of separation between the modified original data objects stream and the selected extracted data objects.

152. A process for automatically display as defined in claim 151, wherein said means comprising:

A. Providing a hardware apparatus for overlaying the output of said selected extracted data objects with the output of the modified original data object stream to create a joint presentation while maintaining high level of separation between the modified original data object stream and the selected extracted data objects.

153. A process for automatically display defined in claim 152, wherein said means comprising:

A. Providing a digital display in which said separate extracted data object streams can be jointly presented in real time while maintaining separation between the data streams.
B. Providing a wireless connected display in which said separate data streams can be presented separately and jointly presented while maintaining desired separation between the data streams.

154. A process for automatically display defined in claim 153, wherein said means comprising

A. Providing a digital processing means for anticopying based on configuration of color contrasts in the display.

155. A process for automatically display defined in claim154, wherein said means comprising:

A. Providing a digital processing means for anticopying based on configuration of font sizes.

156. A process for automatically selecting, extracting, storing and releasing extracted data objects, with security alerts triggering, wherein said means comprising:

A. Providing a digital processing means for selecting and extracting data objects from a stream of digital data objects.
B. Providing a digital processing means for storing said selected data objects.
C. Providing a digital processing means for releasing said selected data objects in a controlled method.
D. Providing a set of rules enabling the automatic triggering of various said process functions in different situations.

157. A process with security alerts triggering as defined in claim 156, wherein said means comprising:

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A. Providing a data processing means for receiving and automatically interpreting security alert inputs.
B. Providing a set of rules enabling the automatic triggering of various said process functions in a threat working mode.
C. Providing a digital processing means for automatically triggering a higher level of said activities for increased security.

158. A process with security alerts triggering as defined in claim 157, wherein said means comprising:

A. Providing a data processing means for receiving and automatically interpreting security alert inputs.
B. Providing a set of rules enabling the automatic triggering of various said process functions in an attack working mode.
C. Providing a digital processing means for automatically triggering the highest level of said process activities for increased security.

159. A process with security alerts triggering as defined in claim 158, wherein said means comprising:

A. Providing a digital-processing audit means for tracing user access

160. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a physical hardware apparatus providing a physical layer of security, and protection against tampering.

161. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for reporting logins attempted, logins, terminations, logouts, and failures.

162. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for mapping and reporting location and history of data object streams and selected data object extract s streams processed by said process.

163. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for intrusion detection determining intrusion based on various file changes.

164. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means enabling providing said applications and services as a third party provider over networks and Internet.

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165. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means enabling providing said applications and services for electronic commerce over networks and Internet.

166. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means enabling providing said applications and services for electronic mail between computers, networks and Internet.

167. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means enabling providing said applications and services for electronic mail between computers, networks and Internet.
B. Providing a digital processing means enabling receiver of electronic mail to receive the selected extracted data object stream by using an additional identifying means.

168. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for presenting information and charging payment for release of selected data object extracts.

169. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for presenting information and releasing of selected data object extracts predicated upon fulfillment of specific conditions.

170. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means enabling overriding of process processes by authorized users.

171. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for adding encryption to output data object streams.

172. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for enabling manual selection of said process processing including automatic process processing.
B. Providing a digital processing means for enabling manual selection of said process processing

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Including: semi –automatic process processing with capability to influence the processing by moving tools such as levers, sliders, drag and drop, buttons, check boxes, bars, and voice recognition.

C. Providing a digital processing means for enabling manual selection of said process processing including manual control of said process processing.

173. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for controlling access to said process and its various outputs based on user identification.

174. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for controlling access to said process and its various outputs based on user identification through biometrics authentication.

175. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for controlling access to said process and its various outputs based on timed challenge questions validating user's identity.

176. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for allowing continuing access to said process and its various outputs based on timed challenge questions validating user identity.

177. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for controlling access to said process and its various outputs based on identify friend or foe validating user identity.

178. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for allowing continuing access to said process and its various outputs based on identify friend or foe validating user identity.

179. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for limiting different users access to said process for specific time periods.

180.A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

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A. Providing a digital processing means for limiting different users access to data object extracts for specific time periods.

181. A process for automatically selecting and extracting as defined in claim 90, wherein said means comprising:

A. Providing a digital processing means for limiting different users access to different process functions at specific time periods.

4.Sketches

See Building and Testing for samples.

5.Ramifications

The invention is a system and a method for automatically selecting, extracting, secure storing and controlled releasing of specific targeted contents within a digital data objects stream, digital document or digital file. The system and method automatically identifies specific content items to be extracted and removed, out of a data objects stream, document or a digital file. The extracted data objects are transferred to a removed secure storage memory, selected, based on preset rules and various security triggers. An automatic release of the extracted contents, from the removed storage to a display, can take place instantly contingent upon validation of identity and access rights of an authorized party

The invention is also a system and method for automatically management and dissemination of documents or digital files with varied contents control levels. The system and method enables content management and control by automatically locating contents of prioritized importance in a document, thereafter allowing real time, simultaneous parallel, customization and personalization of the document and its dissemination to different parties based on their authorization and access status.

6.Possible novel features

The invention enables control over specific important content items within the general contents of documents or digital files in a computer or within a network. The possible immediate controlled release of those important content items according to specific identification and access criteria proactively safeguards the security and the value of documents or digital files. The said content control enables broad dissemination of the digital file in closed networks as well as open networks including the internet, with out compromising the security of the critical information in the digital file. The Internet and communication advances have opened up many new markets but the opportunities are constrained by many and different security threats. The invention enables maximizing of the new revolutionary connectivity by enabling the general content of a document or digital file to be distributed throughout an organization, its employees, partners, suppliers and customers while securing and controlling the most important content elements. The invention releases the important contents only to the validated authorized parties through an automatic and possible manual controlled release mechanism.

The invention also enables real time parallel customization and personalization of a digital file to different users. Through a process of filtering and reverse filtering and through a process of sorting, the selected important content items are categorized in various categories. The controlled release mechanism releases the important content items to the various authorized receivers based on their preset rights to access the different categories.
The system delivers top security, privacy and anonymity capabilities by scrubbing and extracting identifying critical information from documents. The system transfers the extracted critical information to an off site secured storage, and enables authorized parties, leveled release of extracted information upon request. Any

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unauthorized party accessing the documents will find them totally useless since the critical information has been removed. The system also enables the sharing of documents within an organization where upon critical information is extracted from documents and access to that critical information is permitted to selected individuals, with prioritized varying levels of releases of extracted information.

The current art

Although there are various security and privacy products in the market, none of them give total security. The existing security and privacy products are imperfect and do not give enough security, in a way those are added patches to an already patched up universe. In his book One of the Intel's top security architects described the existing security products as building a vaulted door to a cardboard box. A Senior Vice President at Symantec, Inc., a security and anti-virus company stated recently that "after a secure firewall is in place, companies have about 28 days before things change and the firm is vulnerable again."
Currently many network defenses in major organizations are inadequately maintained. There is a need for 2-4 employees to operate firewalls in a large organization. There is a need to constantly update the intrusion detection systems. The high cost involved with maintaining the system is a major obstacle to their successful deployment.
Many of the existing security systems create major barriers to their organization's productivity. The complexity and the added security steps needed to do business, slow the flow of documents within the organizations and in many instances cause a total bypass of the security defenses

The most critical deficiency in the current security systems is there inability to stop or substantially minimize *insider* security damage. According to various studies 75 to 90% of the damage is done by insiders. According to a study of the Industrial Computers Association the average outsider damage is $70,000 while the average insiders damage is $2,700,000.

The system extracts and stripes out identifying and critical information from designated documents. The classic information the Scrubber can extract is: credit card numbers, names, addresses, dates, social security numbers, driver's license, transaction dollar amounts, etc. The market for the system is substantial and includes organizations, individuals and companies that need a high level of data security including governments and various defense organizations. The system is based on a new pioneering architecture of security/privacy/anonymity technology. With the spreading of mobile/cellular/satellite communications, the threats to security and privacy are much stronger and the probability of security breaching is much higher. The system enables the continuity of regular business flows, survivability, in both regular and mobile environments. It assures that when an intruder or rogue employee accesses the documents, the documents will be useless.

As electronic commerce grows rapidly, more companies are transforming their closed networks into more open environments allowing customers to connect through the internet to their front end as well as enabling suppliers and partners to connect through the internet to their the back end.

The security threats and risks of such networks grow in direct correlation to the network's growth in connectivity. With the new openness and as companies embrace the Internet and use it for many of their functions, the security risk grows exponentially.

The internet is a public collection of computer networks with a many diverse entry points for hackers who can, among other things, penetrate a company's website, and throughout it enter the company's networks to steal information or money.

As security is becoming a more strategic priority to slow the operations of the networks and cause organizations substantial money losses. Although there are various security measures and firewalls and systems to protect networks, security has been breached dramatically. Currently, insiders within the company and its firewalls do

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75% to 90% of the damage. Furthermore, the existing firewalls are susceptible to many false alarms because of triggers of false intrusions into the networks, which radically In summary, the existing computer and network security products, are not achieving needed security tasks. They do not give enough security and in essence are added patches to an already very patched up environment of computers and computer networks .The present invention answers the said unanswered needs by providing a system that defends in different methods from external as well as internal intruders. Furthermore the system encourages and enables a much needed freer flow of documents and digital files within and out of organizations while automatically protecting the automatically and manually selected important information items .The system also enables survivability of the network while it is being attacked, by allowing the transfer of needed documents in a protected method, thereby accomplishing the network's critical missions.

The system incorporates a scrubbing/extracting process in which words, numbers or characters of strategic importance are removed from a document or digital file as soon as they are created or imported into the computer or network.

The extracted data is transported immediately to a removed storage memory possibly, off-line/off-network, digital or physical vaulted storage. The extracted data may be returned immediately to the user's display based on validation of his identity and access rights. The use of the vaulted extractions is controlled by company policy or set of rules which might include the following options among others:

- A vaulting of extractions for along/short period of time.
- Release of extractions to create a projection display of the original document or digital file.
- Release of extractions or part of them to create a projection display of variations of the original document or digital file.
- Release of extractions enabling projection of original or reconstituted document while maintaining complete separation between the modified digital data stream and the extracts data streams. The said is achieved through the use of hardware devises like , another screen display ,or a wireless PDA, screening projector, 3d glasses , overlay transparency, or printing of the extracts on a paper

The system's objective is to create a last line of defense for the computer/network. Furthermore the objective is to create a major deterrent. If an intruder penetrates successfully all the computer/network's, firewalls and other security systems, he will end up with documents/files, which will be useless to him since the critical strategic information was exported to a vaulted storage. Competitors or hackers, who learn that a computer/network is protected by the system, might decide to chase another target instead. This is comparable to a situation in which a bank robber, who finds out that the bank vault is empty, will most probably look for another bank to rob.

The system has a manual of different options including the ability to scrub/extract:

- All existing data texts and databases on the computer/network.
- All new imported data to the computer/network.
- All new work/output created by the computer/network.
- All data being transported in/out of the computer/network.

The system is designed to protect a network of computers or severs as well as an independent computer or component of a network

7.Closest known art

None found in this specific context.

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DEFENDANT'S EXHIBIT

Building and Testing: Samples

The following screen images demonstrate the machine and process in action, automatically, selecting, extracting data objects from a file. Furthermore, the extracted data objects are transported to a removed memory, and automatically released into a display to recreate the file or versions of the file. Note the times and dates showing actual atomic time for samples.

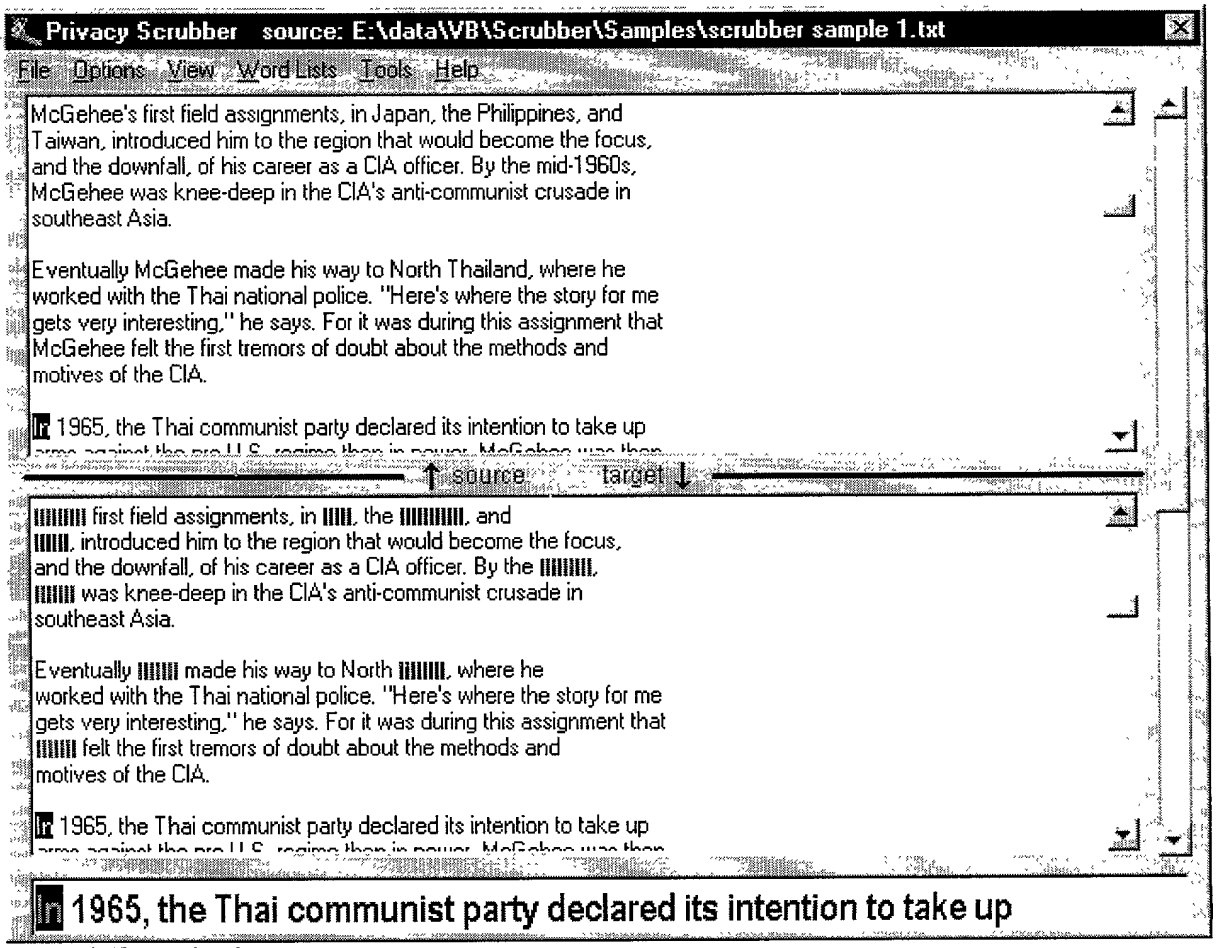


Figure 1. Extraction in progress.

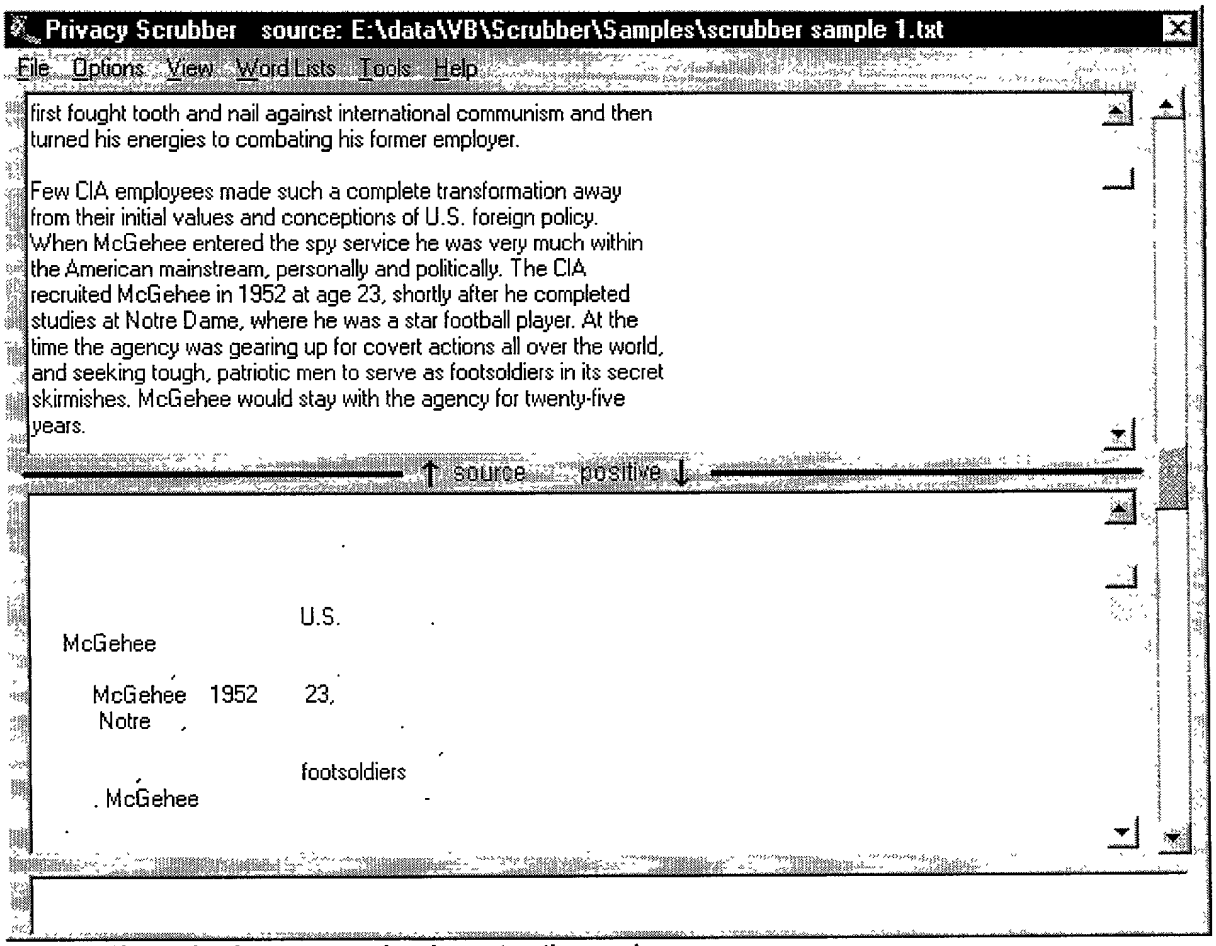


Figure 2. Extraction in progress showing extractions only.

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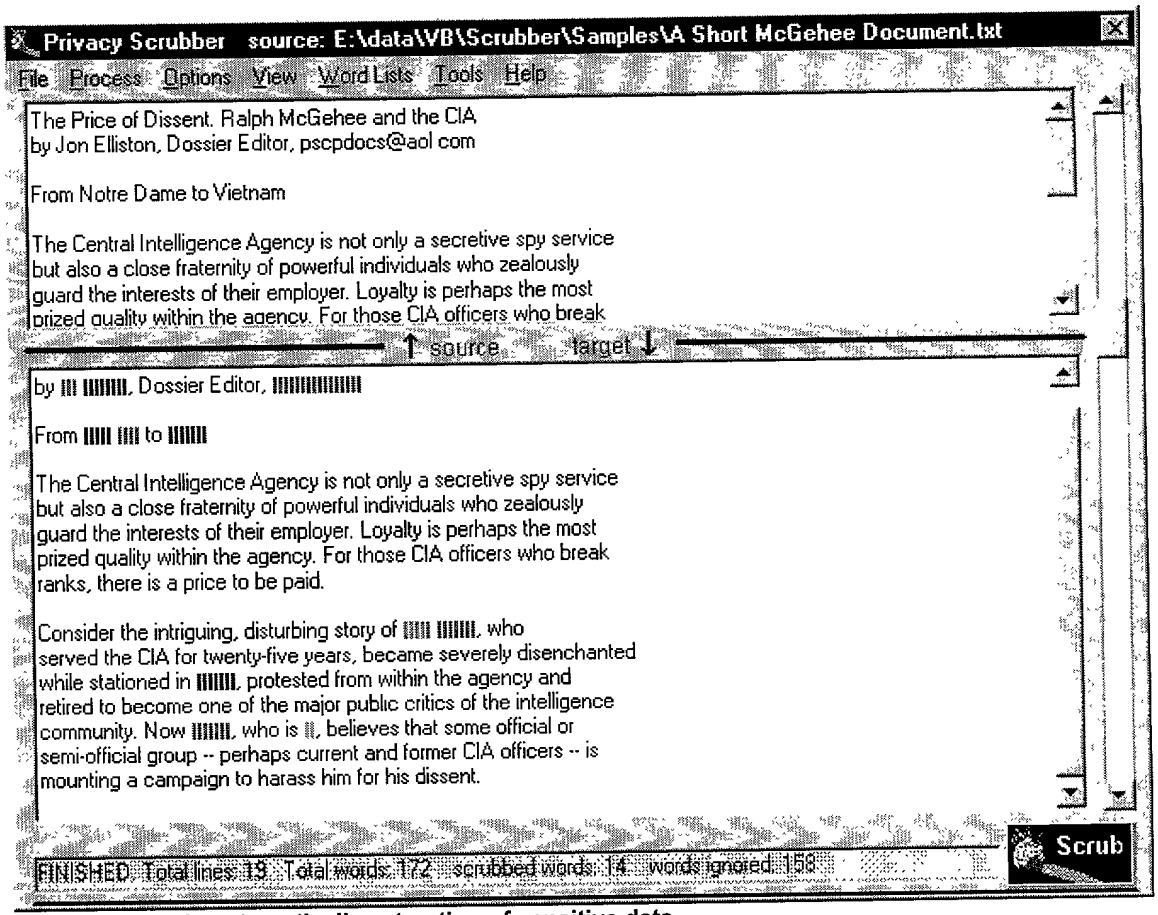


Figure 3. Sample automatically extraction of sensitive data.

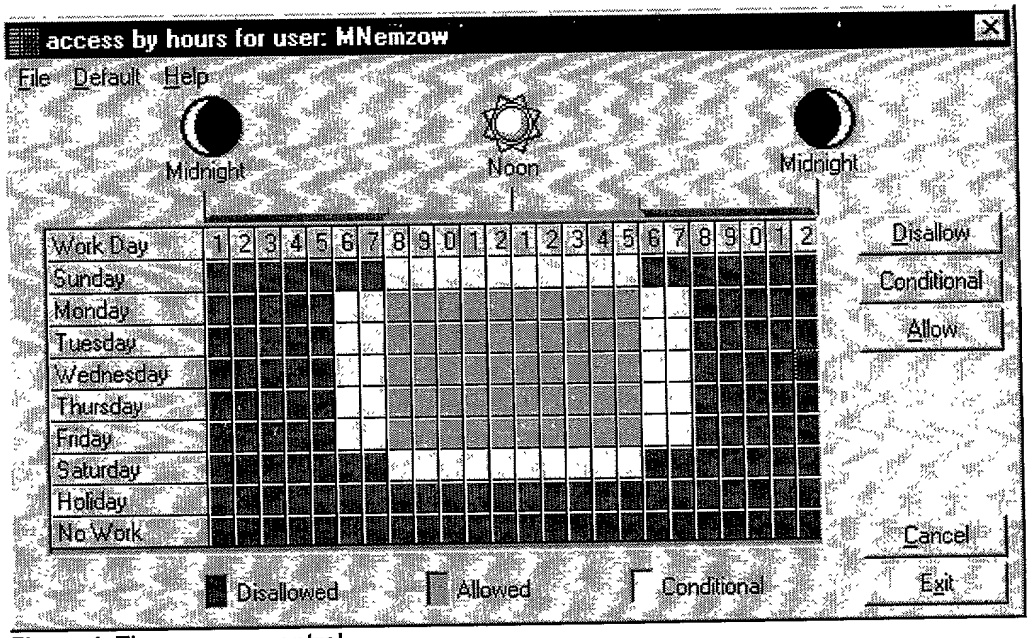


Figure 4. Time access control.

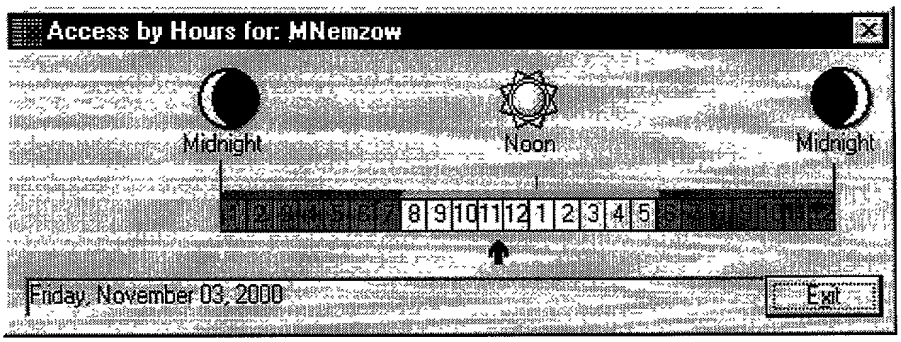


Figure 5. Time access report.

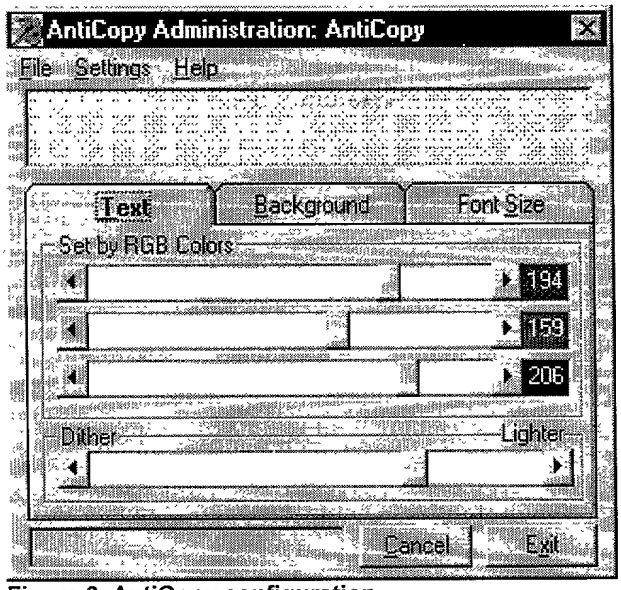


Figure 6. AntiCopy configuration.

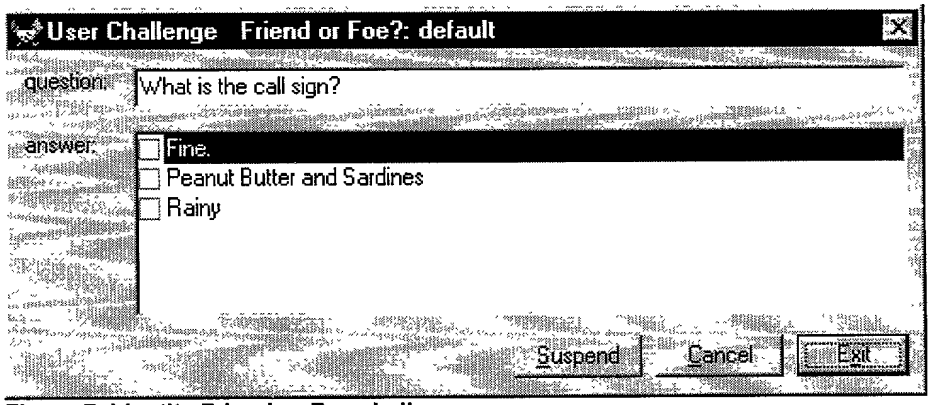


Figure 7. Identity Friend or Foe challenge.

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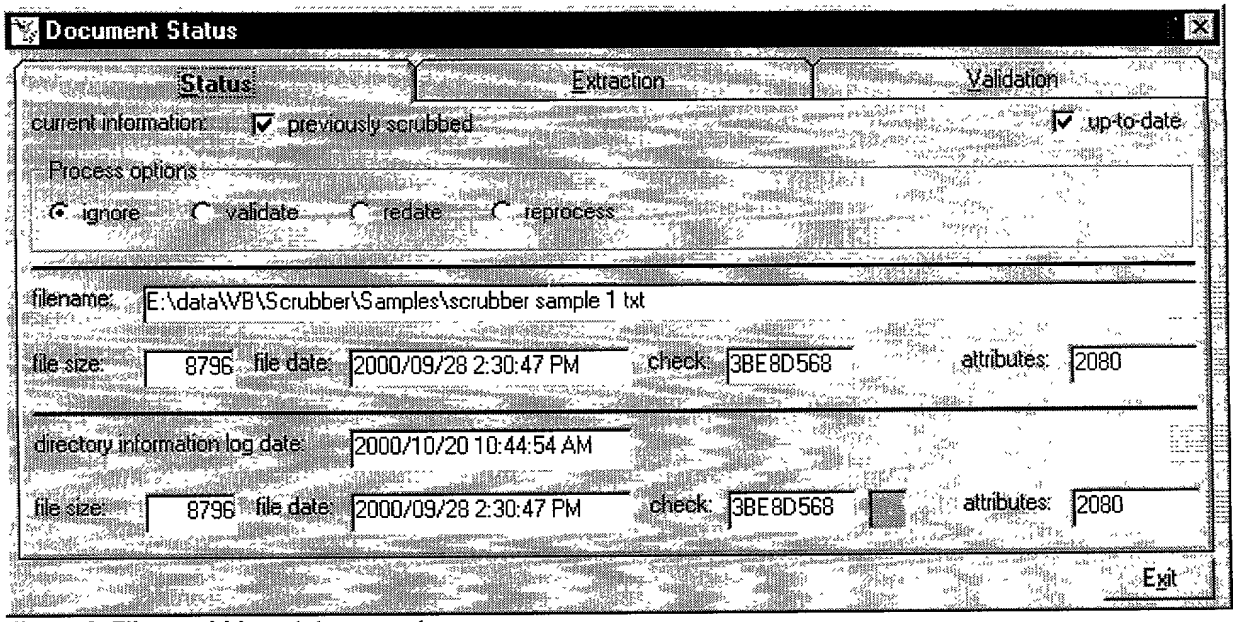


Figure 8. File scrubbing status report.

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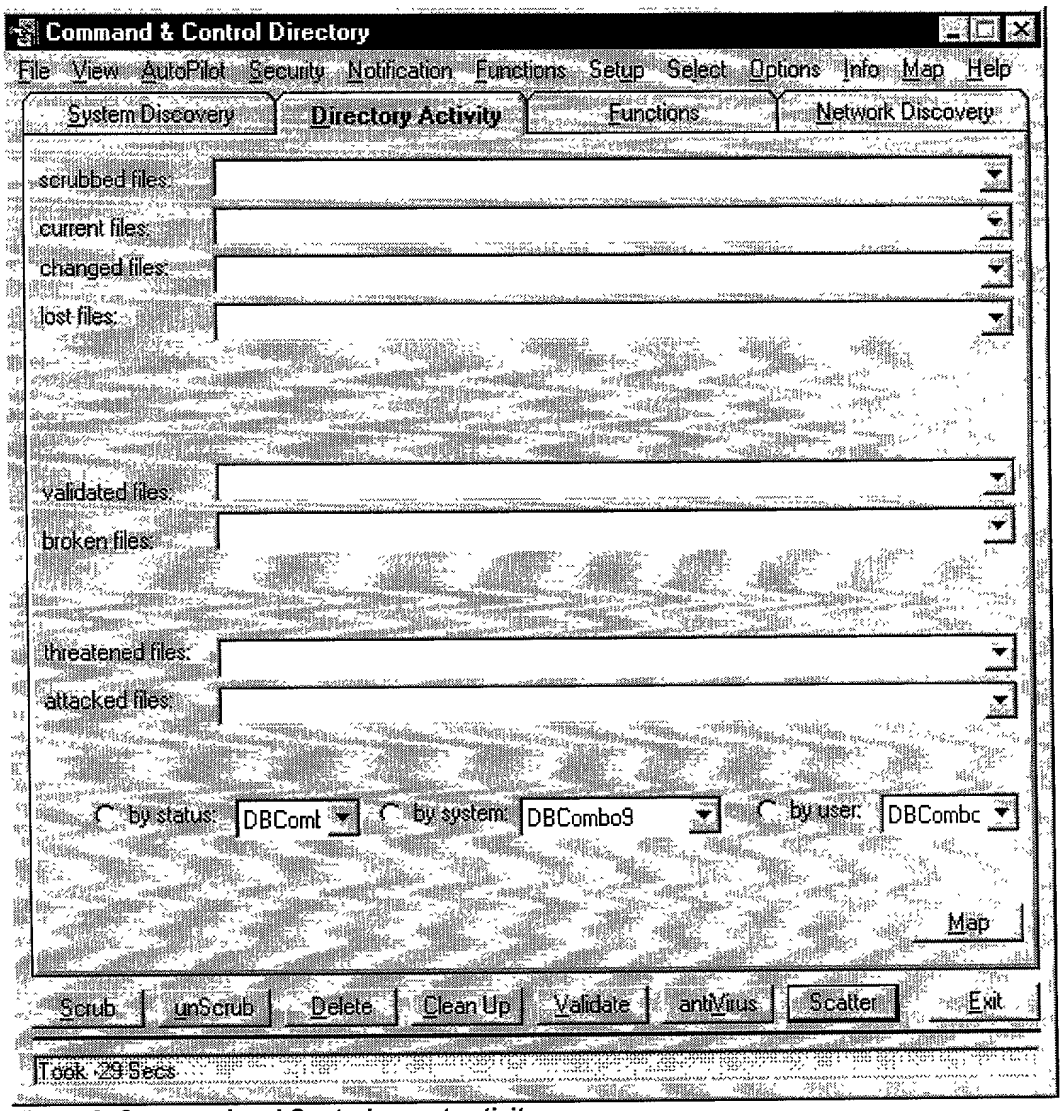


Figure 9. Command and Control recent activity.

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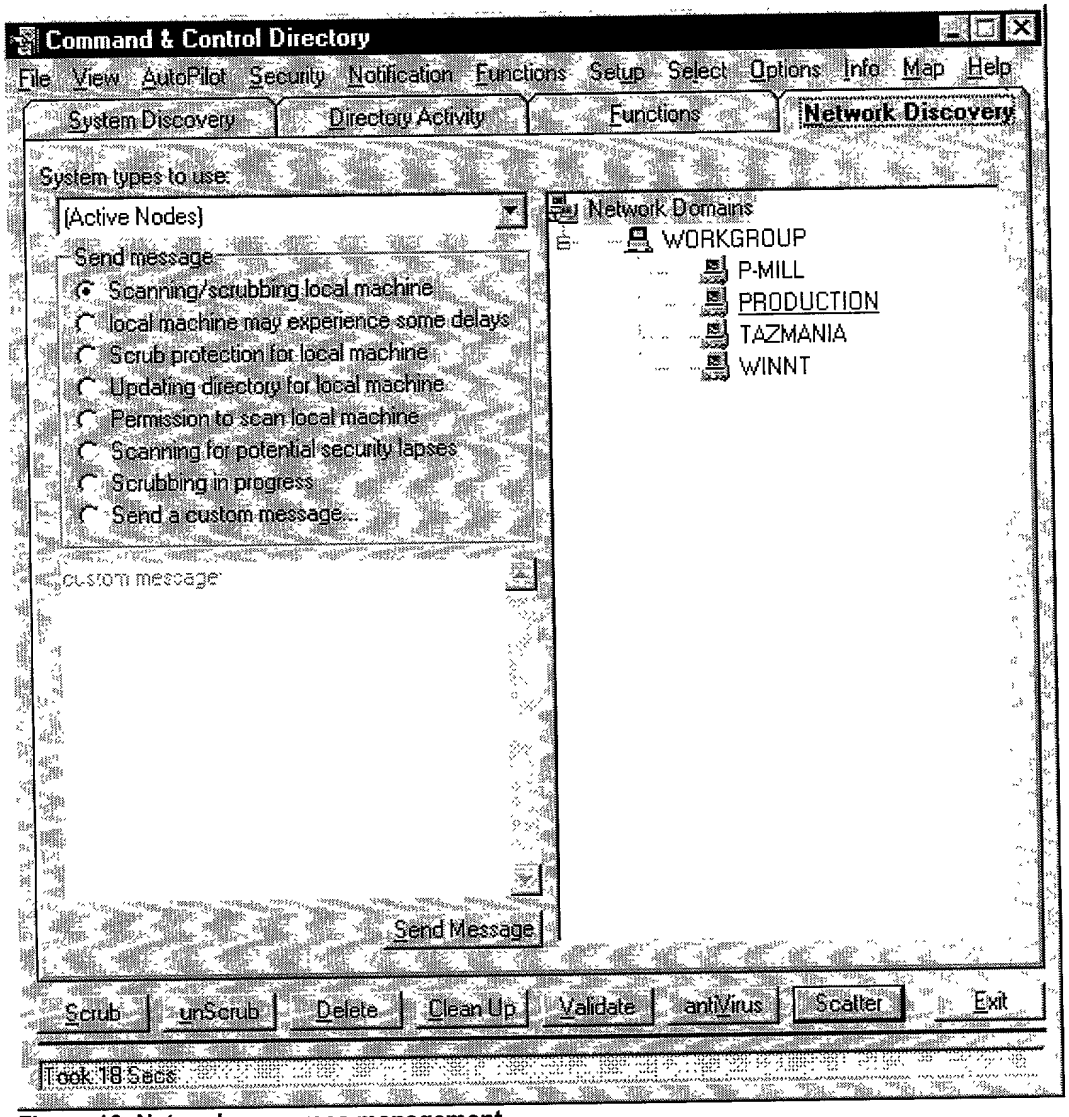


Figure 10. Network resources management.

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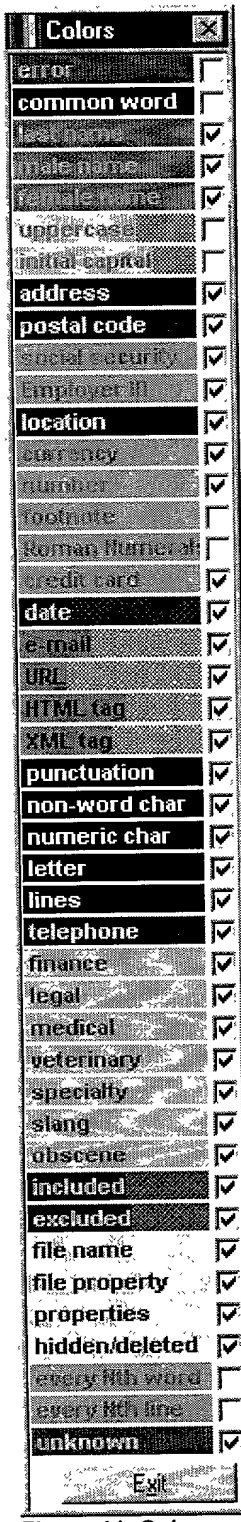


Figure 11. Color coding of prioritized categories.

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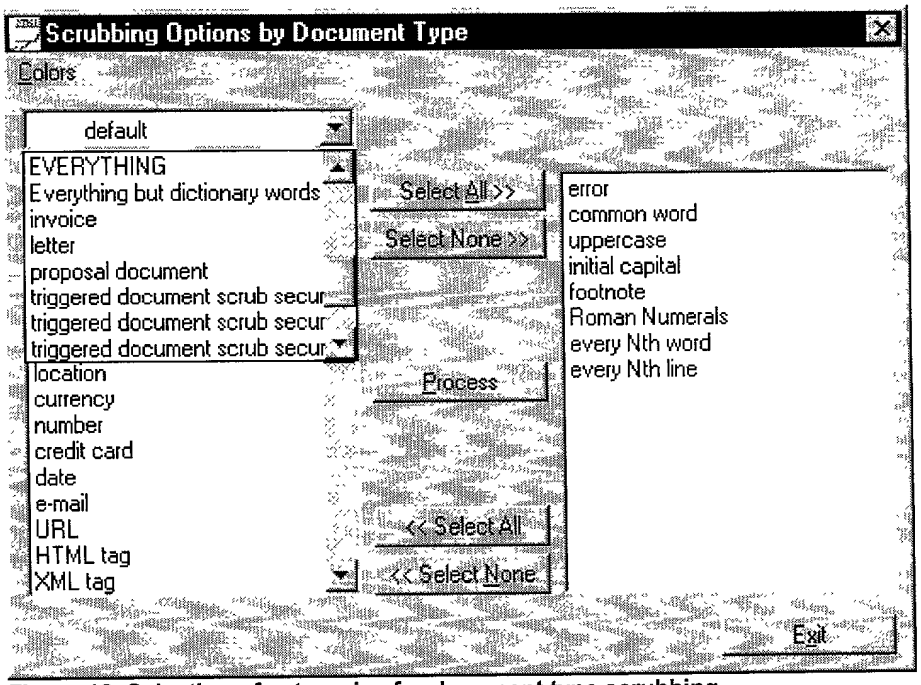


Figure 12. Selection of categories for document type scrubbing.

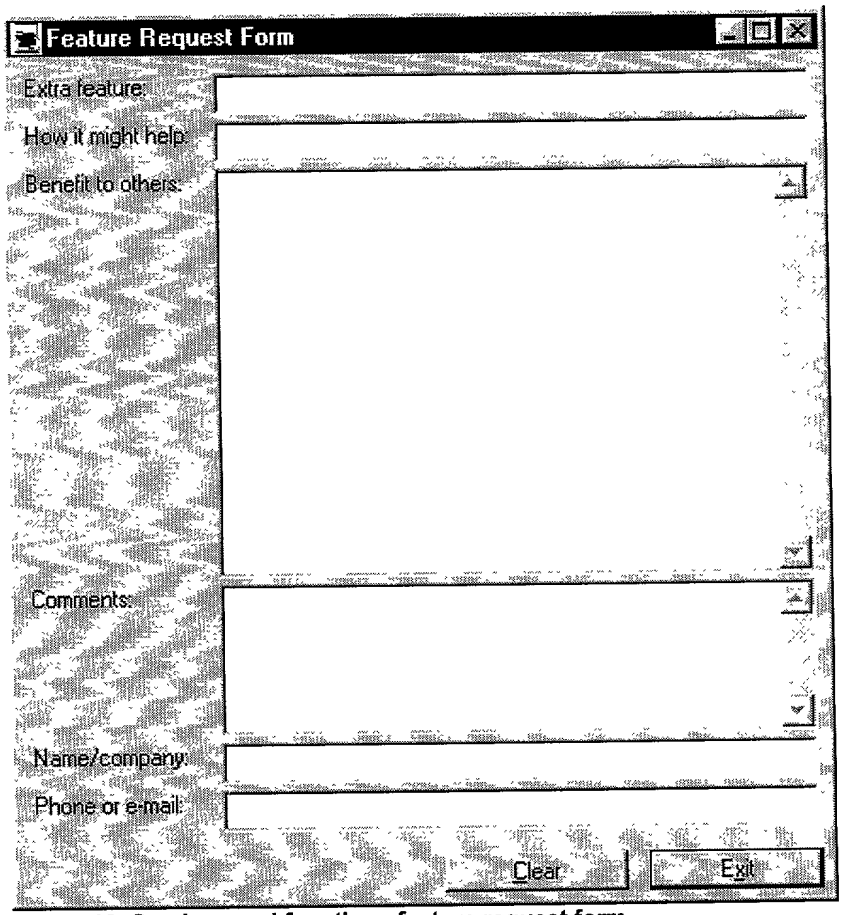


Figure 13. Services and functions feature request form.

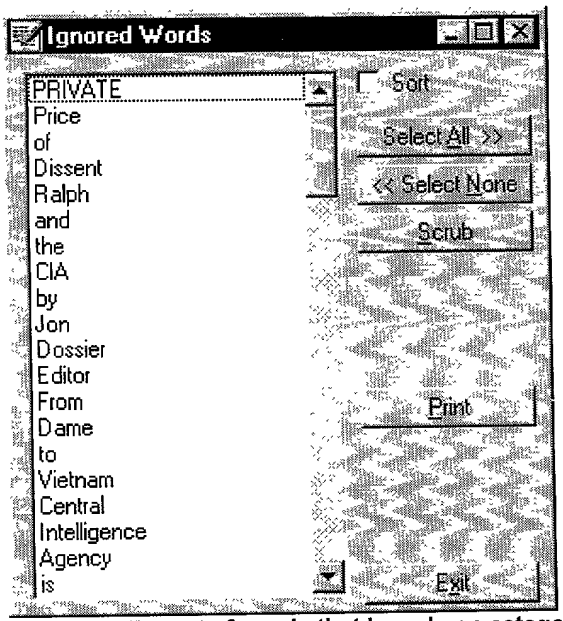


Figure 14. Report of words that have been categorized but not extracted.

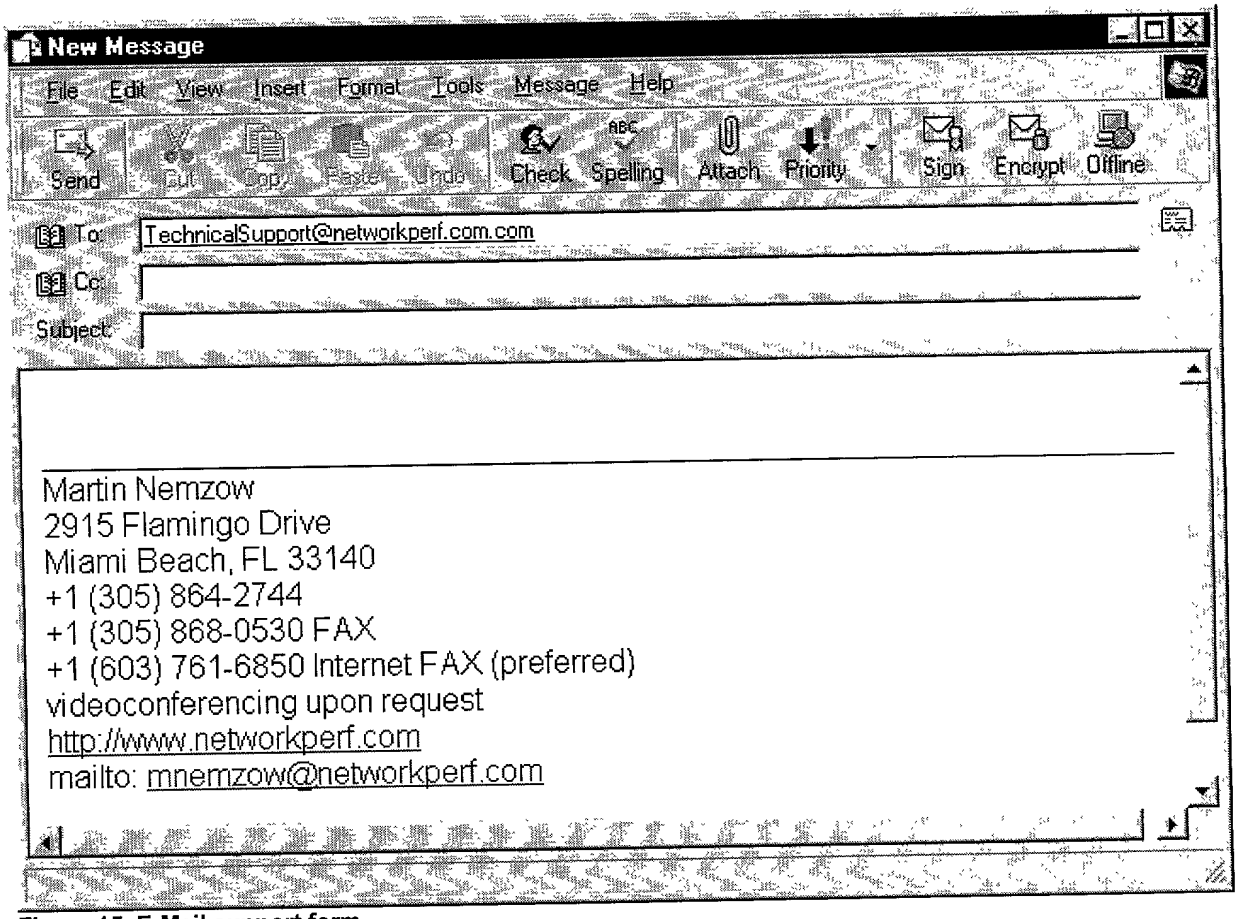


Figure 15. E-Mail support form.

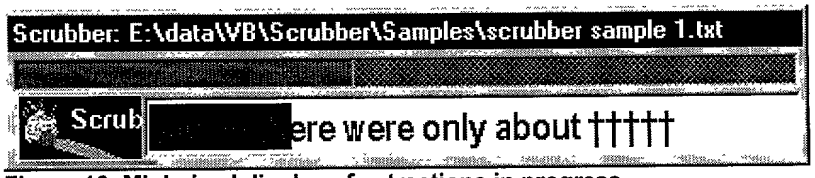


Figure 16. Minimized display of extractions in progress.

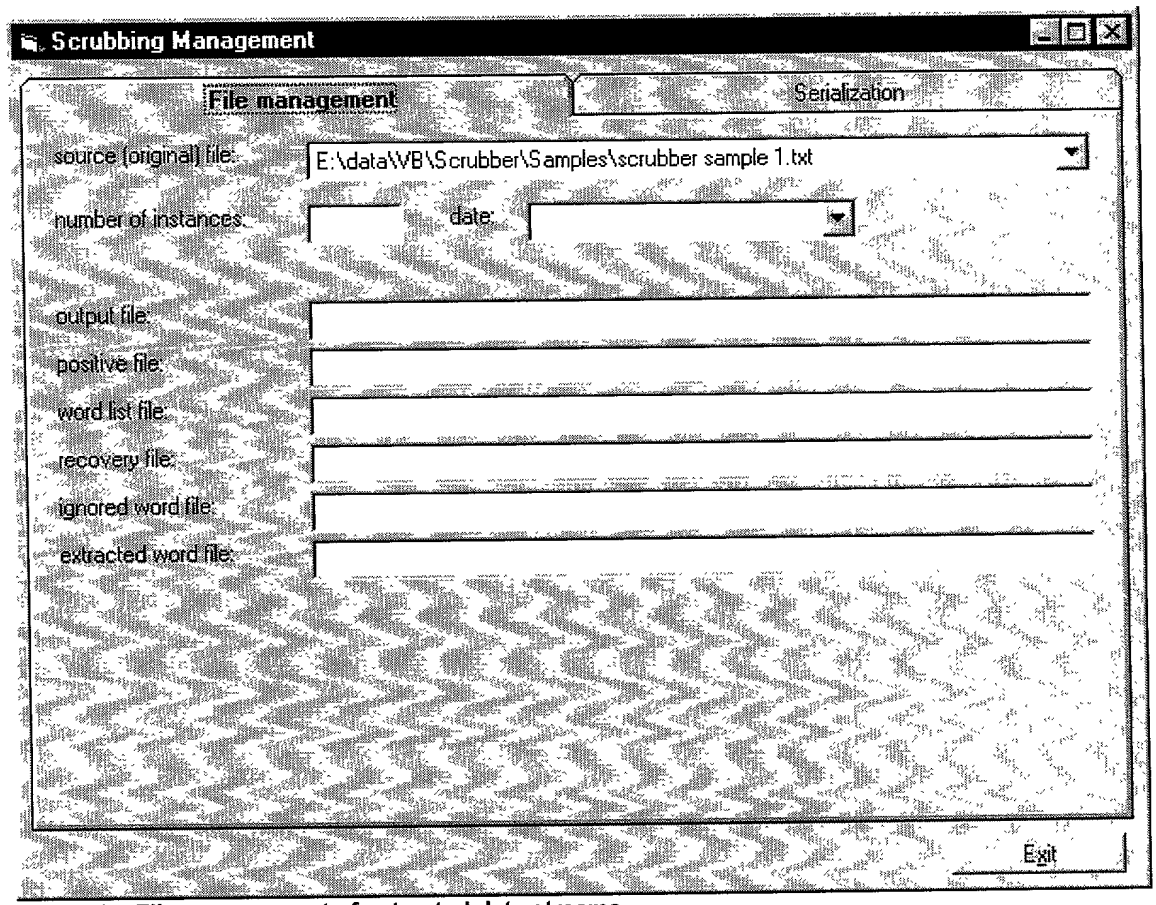


Figure 17. File management of extracted data streams.

Docket Alarm

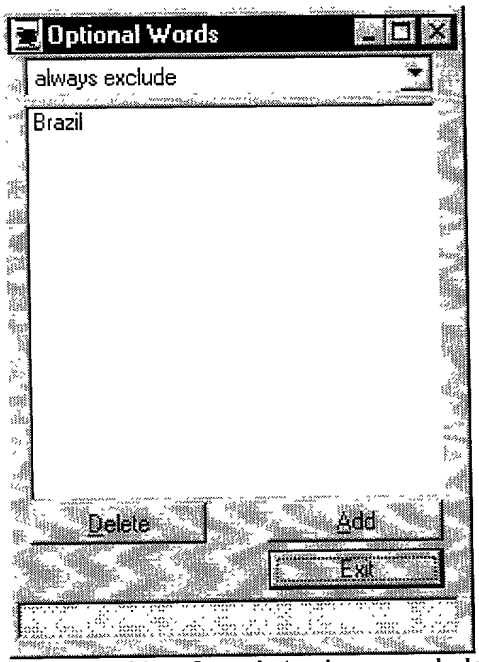


Figure 18. List of words to always exclude from extraction pro ess.

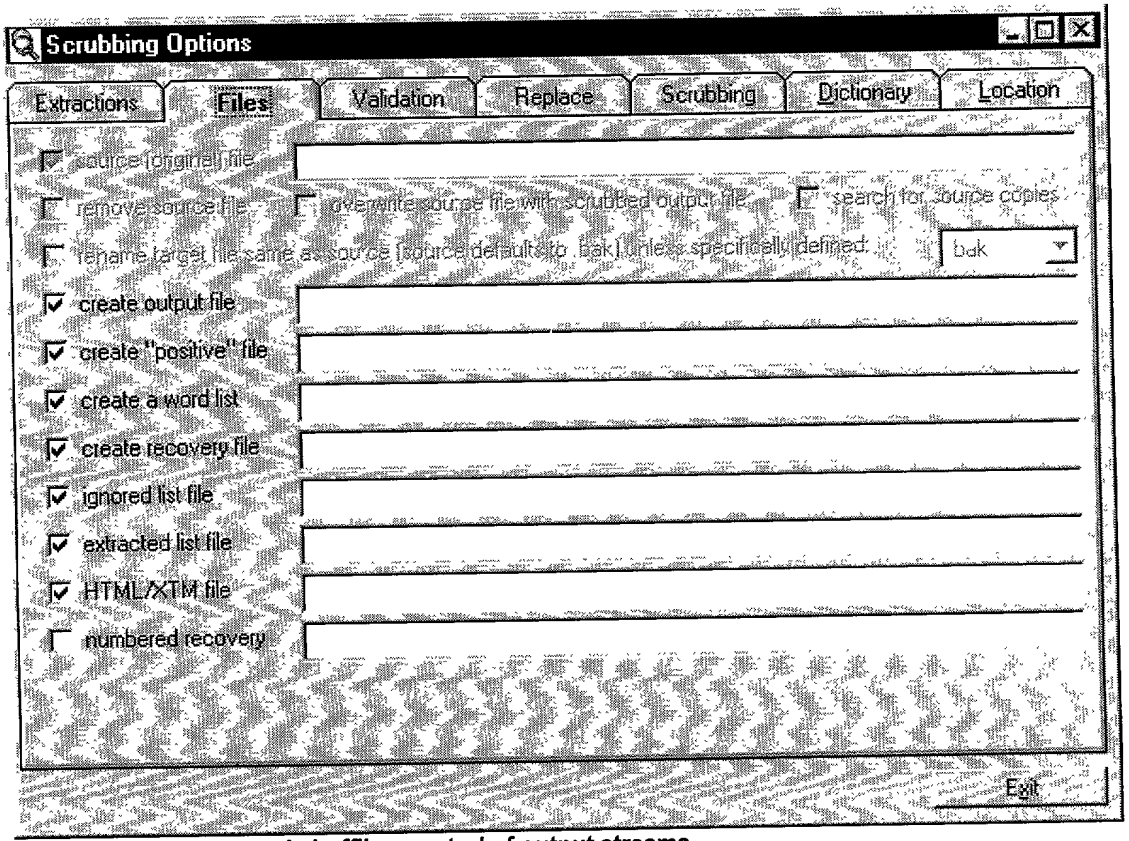


Figure 19. Transport and shuffling control of output streams.

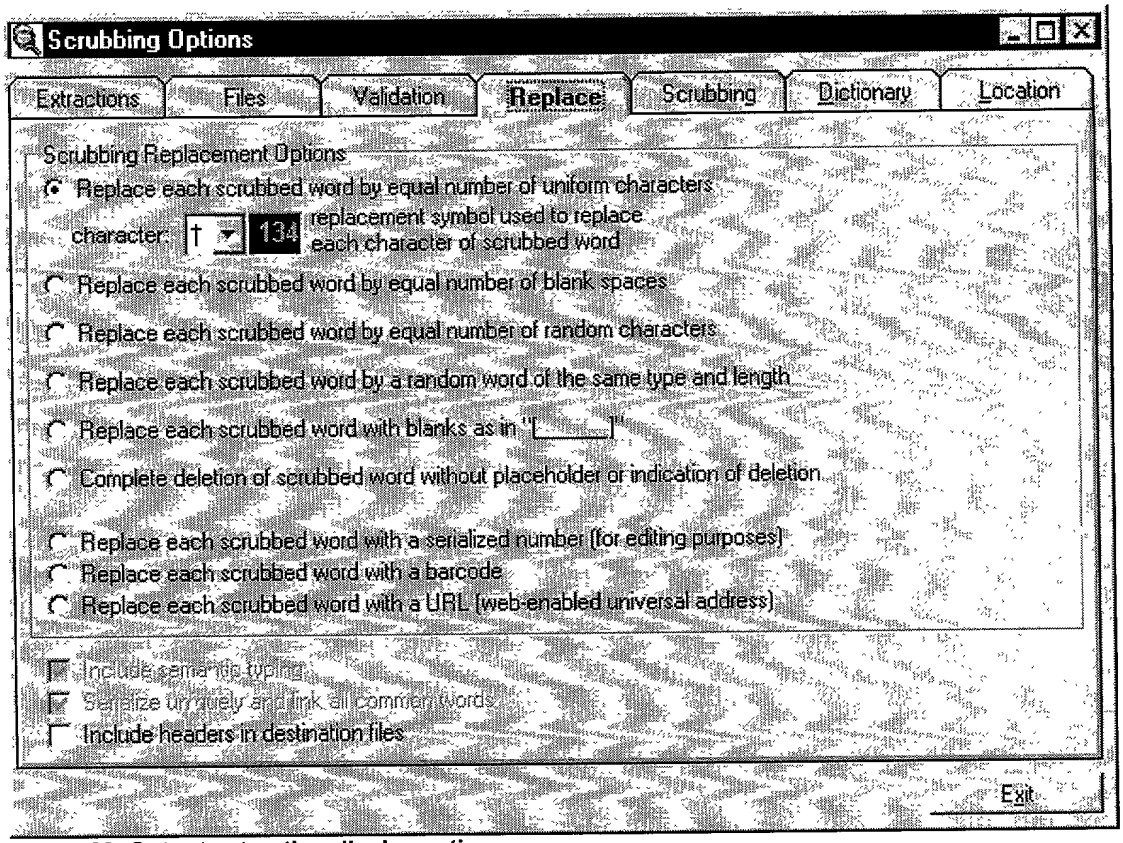


Figure 20. Output extraction display options.

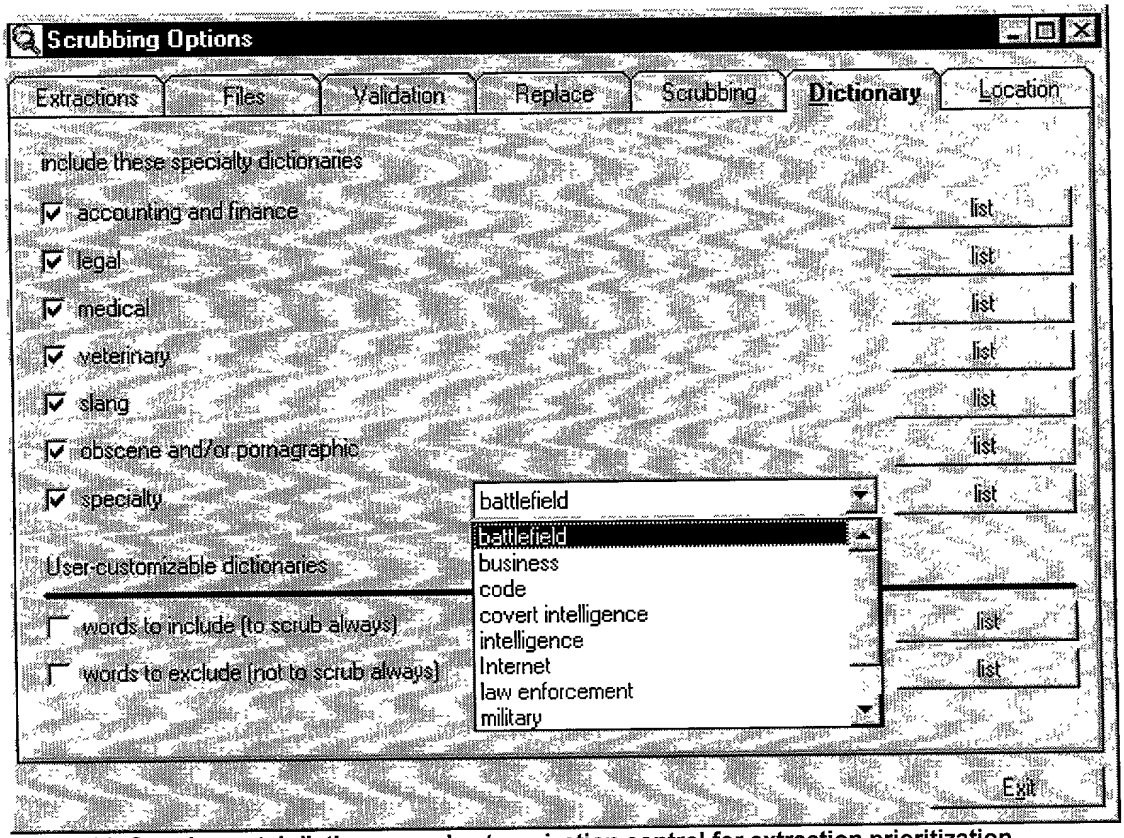


Figure 21. Supplemental dictionary and categorization control for extraction prioritization.

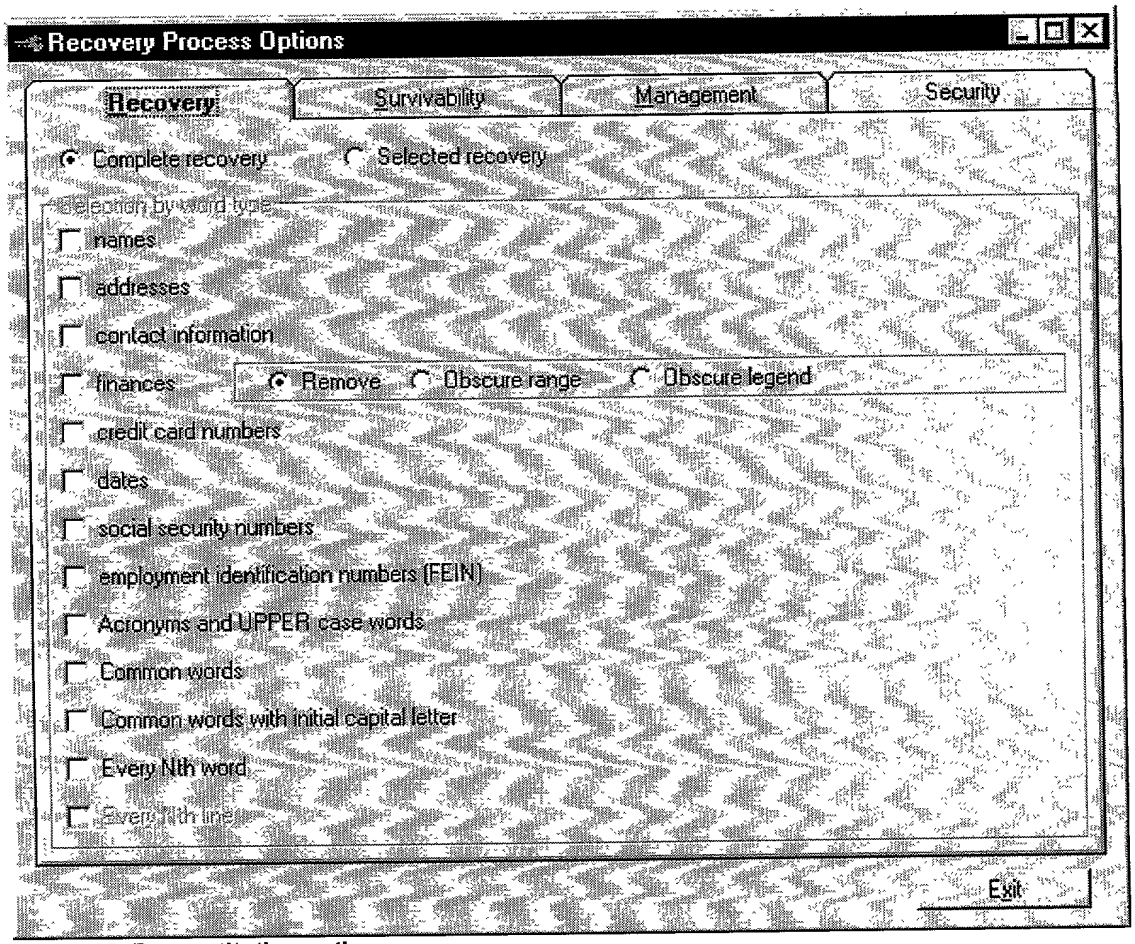


Figure 22. Reconstitution options.

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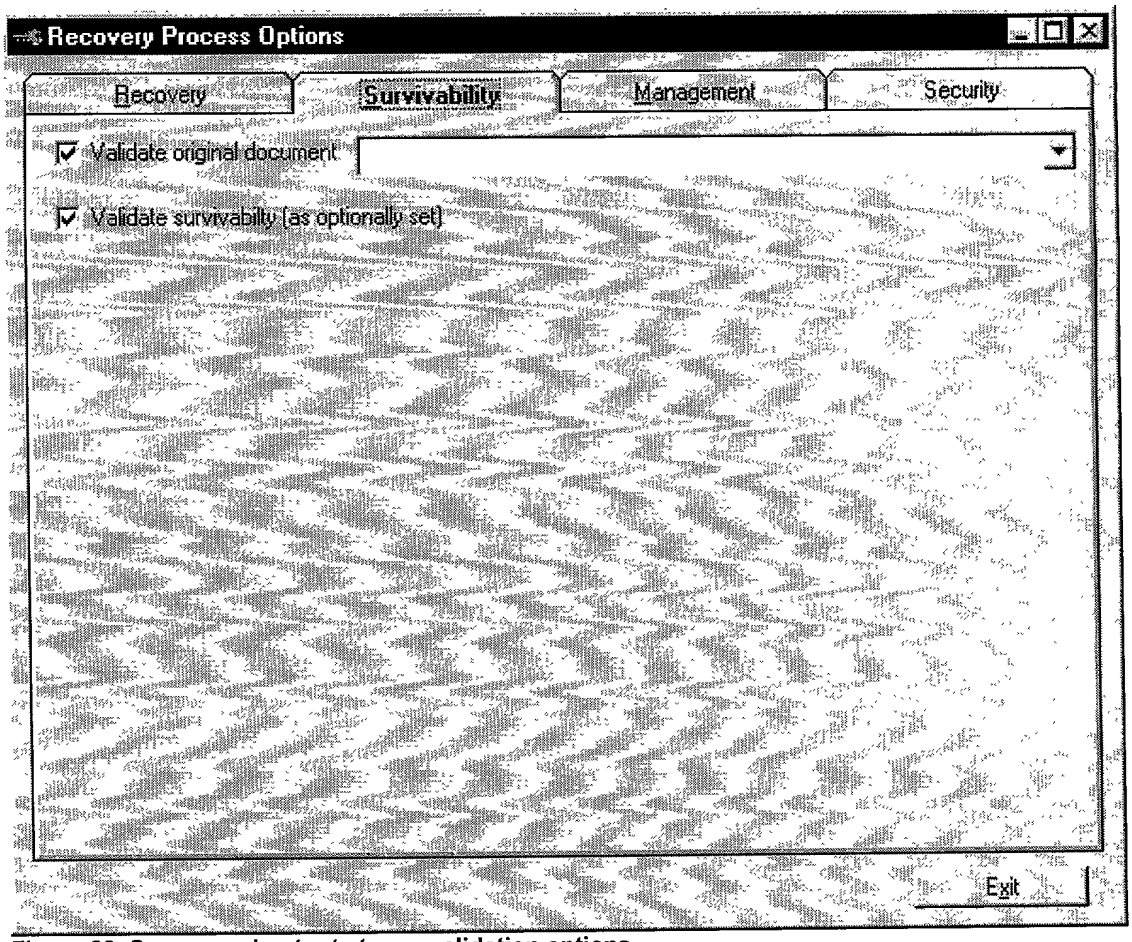


Figure 23. Source and output stream validation options.

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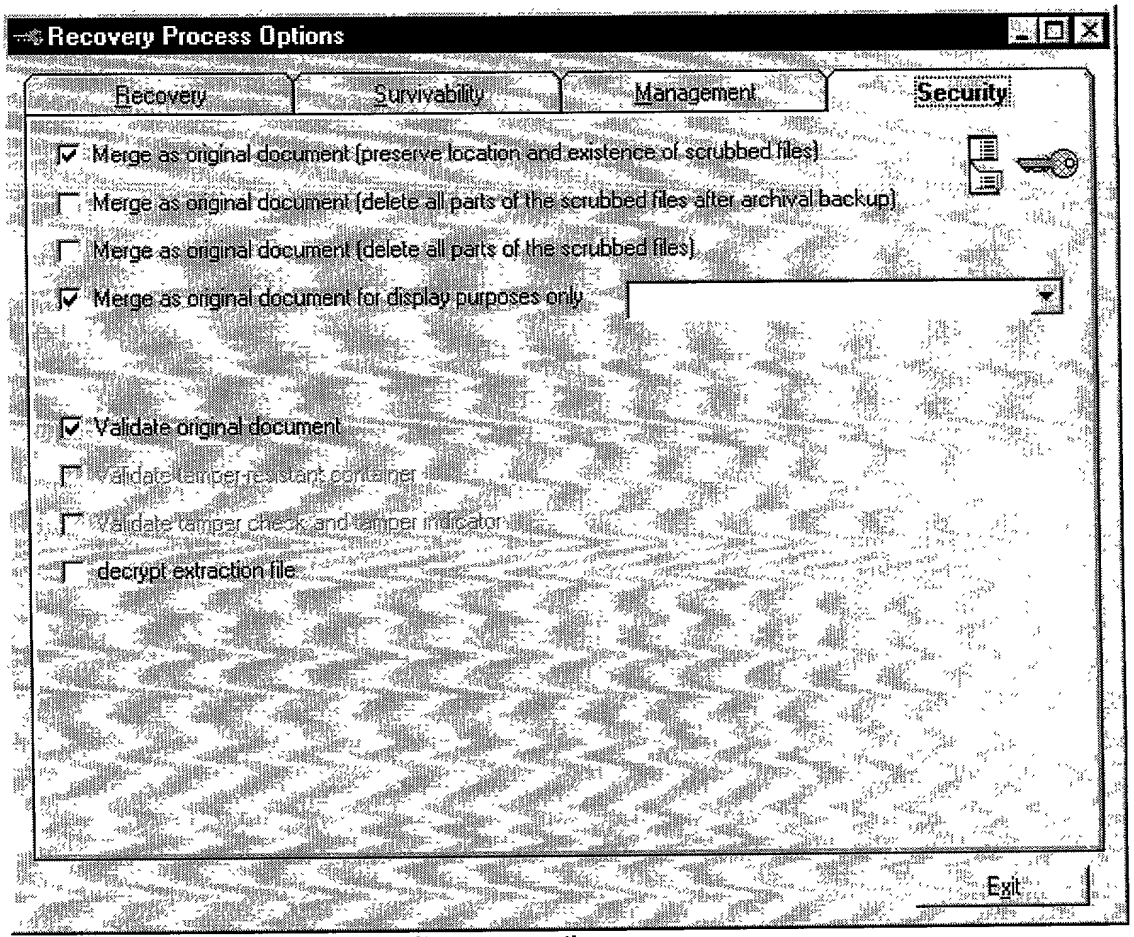


Figure 24. Reconstitution and security access options.

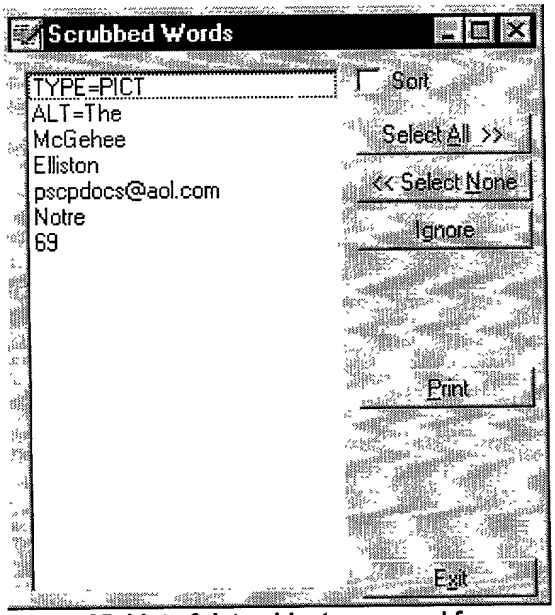


Figure 25. List of data objects removed from source stream.

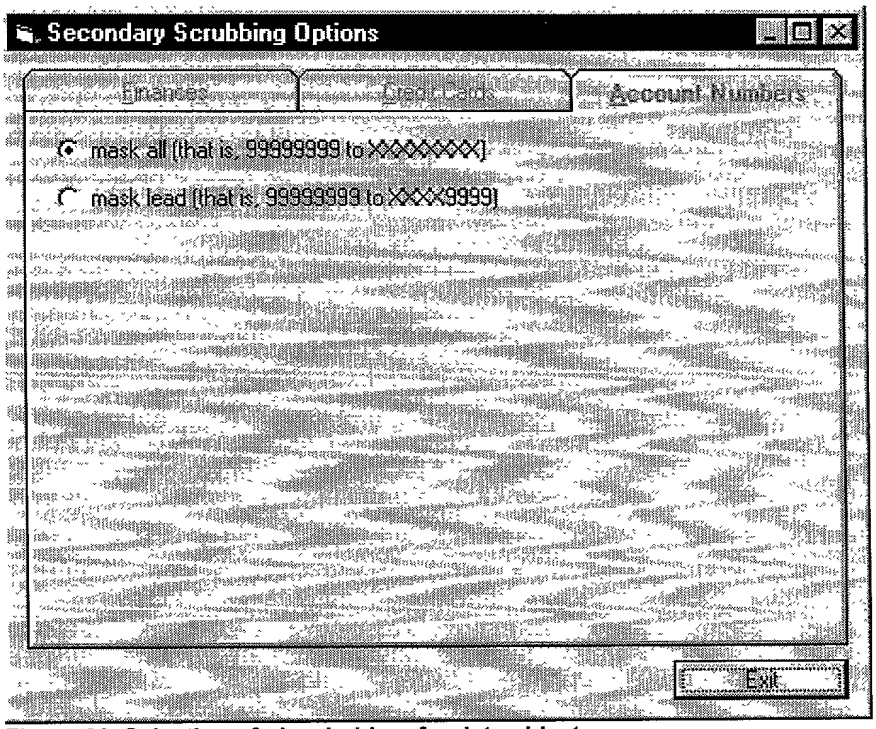


Figure 26. Selection of placeholders for data objects.

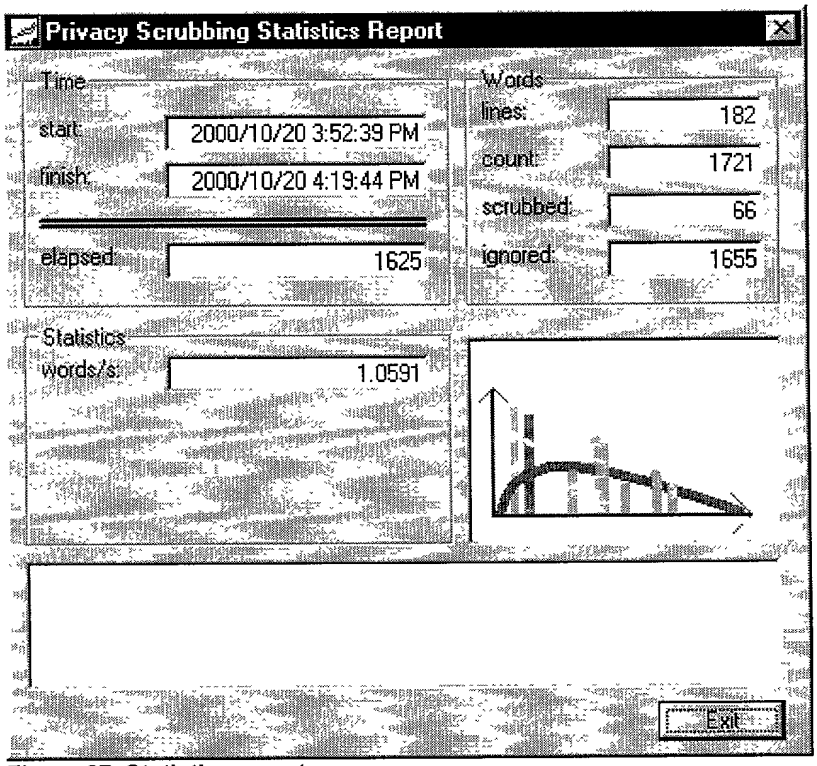


Figure 27. Statistics report.

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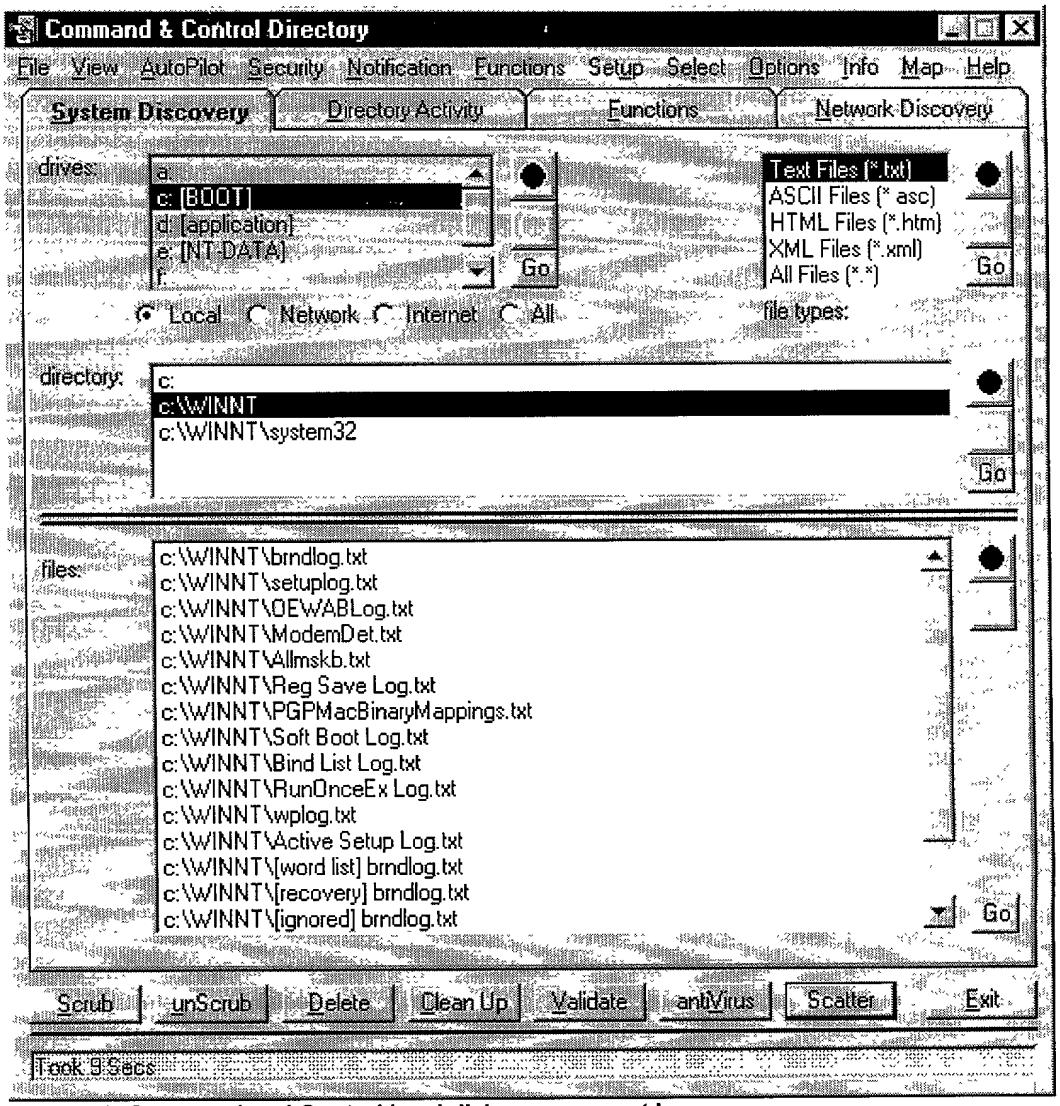


Figure 28. Command and Control local disk management in process.

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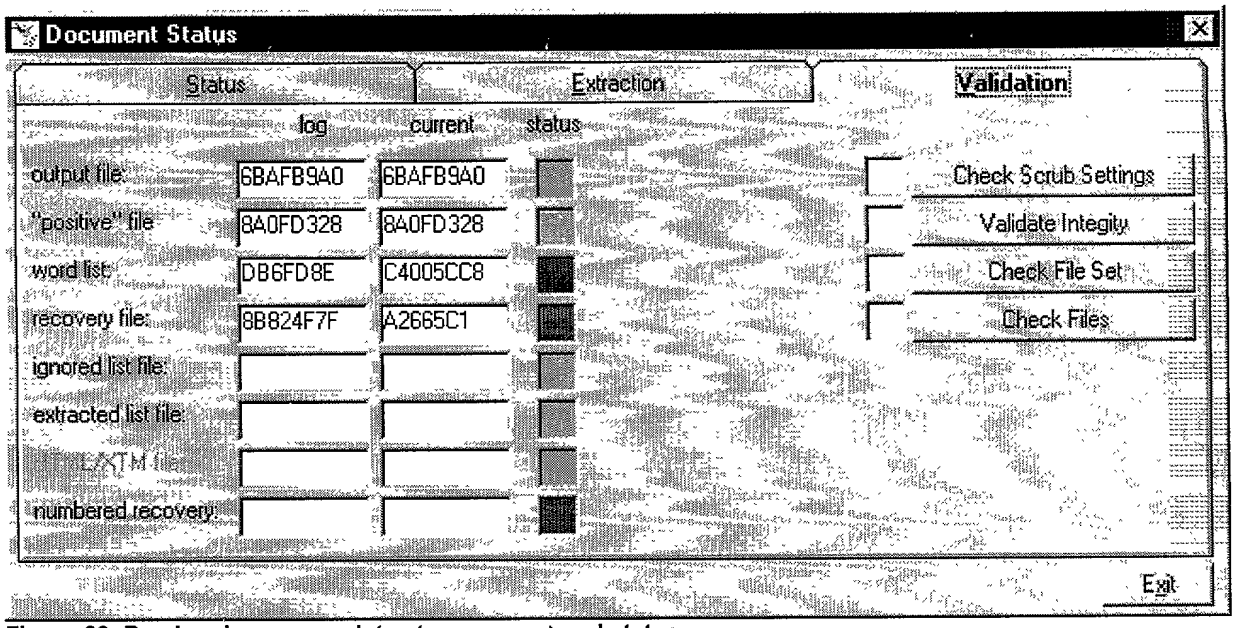


Figure 29. Previously process data stream report and status.

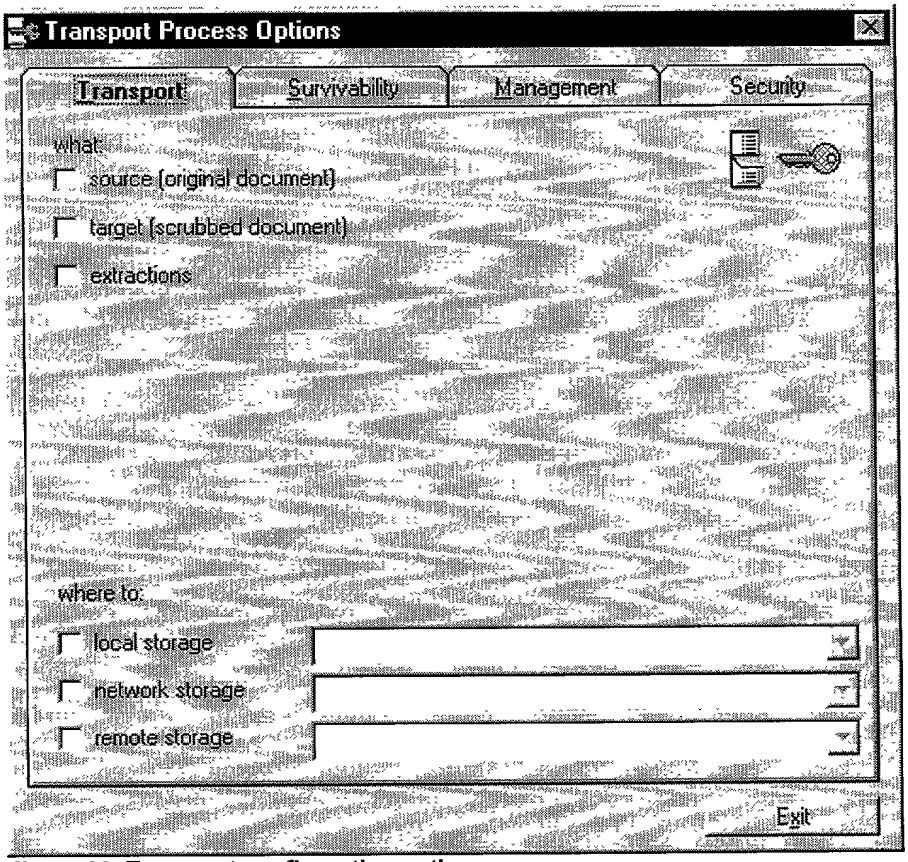


Figure 30. Transport configuration options.

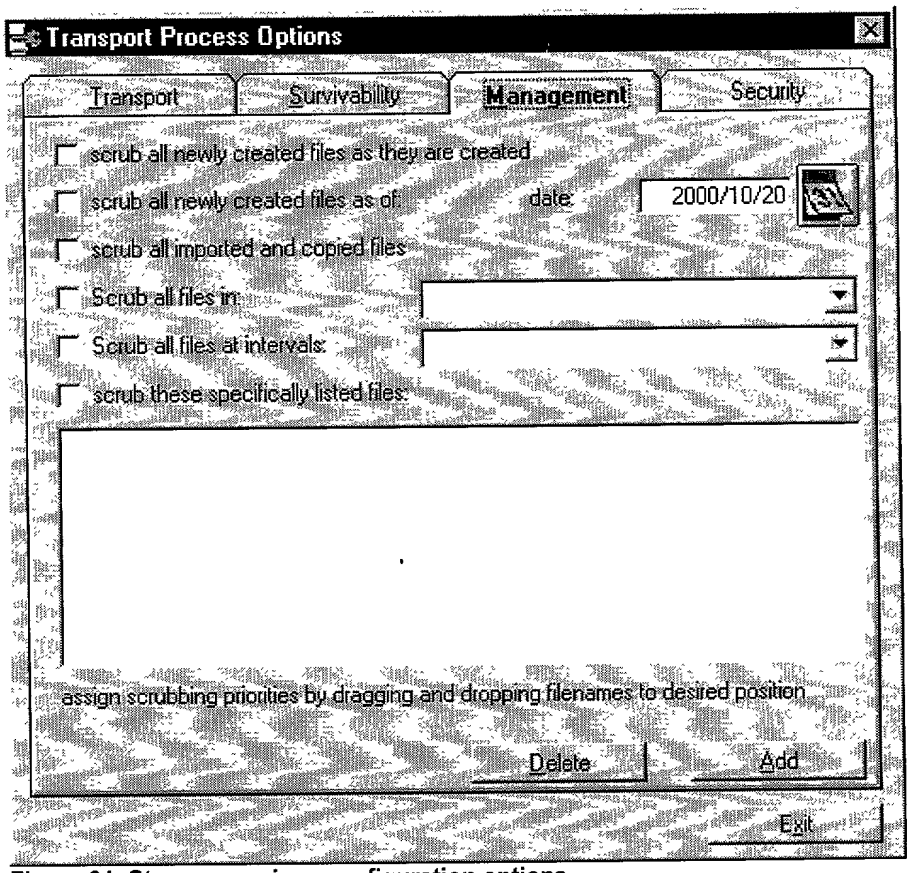


Figure 31. Storage services configuration options

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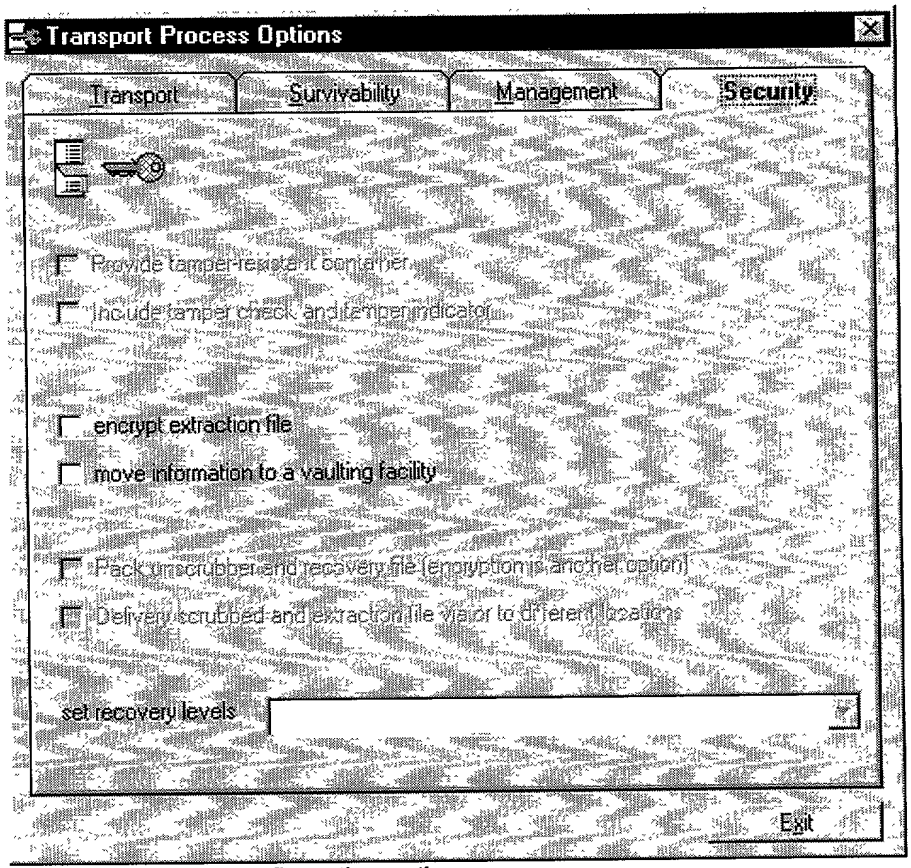


Figure 32. Security configuration options.

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