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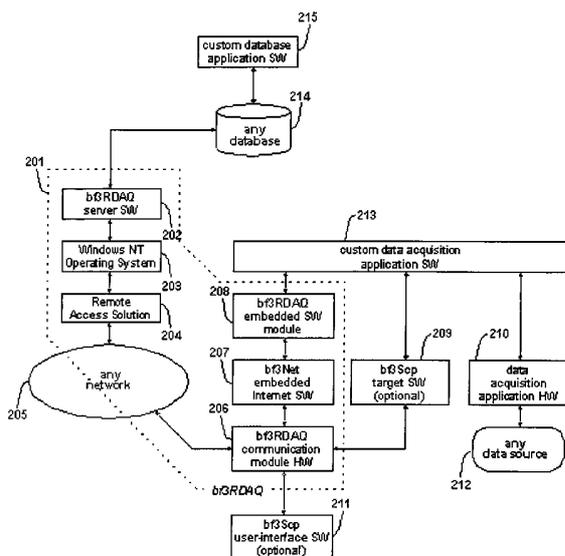
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEM FOR REMOTE DATA ACQUISITION BASED ON E-MAIL MESSAGE COMMUNICATION THROUGH PUBLIC AND PRIVATE NETWORKS



(57) Abstract: The present invention relates to a method for transferring generic data acquired at a remote location to a central database based on e-mail communication, comprising the steps of: a. encapsulating the acquired data in an electronic mail message; and b. sending the electronic mail through a network (public or private) to a central database server; and c. extracting the data from the electronic mail message by the central database server; and d. storing the extracted data in the central database, whereby said acquired data is communicated directly to said database server by providing an architecture for Internet communication software for embedded platforms, said architecture being based on a network of software multiplexers and demultiplexers, controlled by an integrated protocol engine.



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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/09035

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/58 G06F17/30 H04L29/06 H04L12/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L G06F G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 964 325 A (NELES CONTROLS OY) 15 December 1999 (1999-12-15)	1
X	abstract column 1, line 10 -column 8, line 51 figure 2	2-5,7-9
Y	COMER D. E: "INTERNETWORKING WITH TCP/IP." 1995, ENGLEWOOD CLIFFS, PRENTICE HALL., US XP002935298 216987	1
X	page 1748, line 30 -page 176, line 4 -/--	6

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

23 April 2003

Date of mailing of the international search report

23. 07. 2003

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 02/09035

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-9, 12, 13

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-9,12,13

An architecture for internet communication software comprising software multiplexers and demultiplexers.

2. Claims: 10,11

A target identification method.

3. Claim : 14

Updating of the software version of an apparatus by downloading a software image.

4. Claim : 15

Integration of a circuit in a connector housing of a communication cable.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/09035

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 19681 A (XBIND INC) 6 April 2000 (2000-04-06)	6
A	abstract page 1, line 23 -page 5, line 30 page 8, line 27 -page 17, line 12 page 19, line 30 -page 24, line 11 page 26, line 24 -page 27, line 17 figure 5	1
X	----- PRESTON D J: "INTERNET PROTOCOLS MIGRATE TO SILICON FOR NETWORKING DEVICES" ELECTRONIC DESIGN, PENTON PUBLISHING, CLEVELAND, OH, US, vol. 45, no. 8, 14 April 1997 (1997-04-14), pages 87-90,92-94, XP000730016 ISSN: 0013-4872 page 87, left-hand column, line 1 -page 88, left-hand column, line 42 page 91, middle column, line 21 -page 92, left-hand column, line 5	12,13
X	----- EP 1 045 549 A (IBM) 18 October 2000 (2000-10-18) abstract column 1, line 5 -column 8, line 24 figures 1-3 -----	2-5,7-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 02/09035

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
EP 0964325	A	15-12-1999	FI 981235 A	02-12-1999
			DE 69902503 D1	19-09-2002
			DE 69902503 T2	10-04-2003
			DE 964325 T1	17-08-2000
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			US 6298377 B1	02-10-2001
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			WO 0019681 A2	06-04-2000
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EP 1045549	A	18-10-2000	EP 1045549 A1	18-10-2000
			JP 2000354035 A	19-12-2000
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