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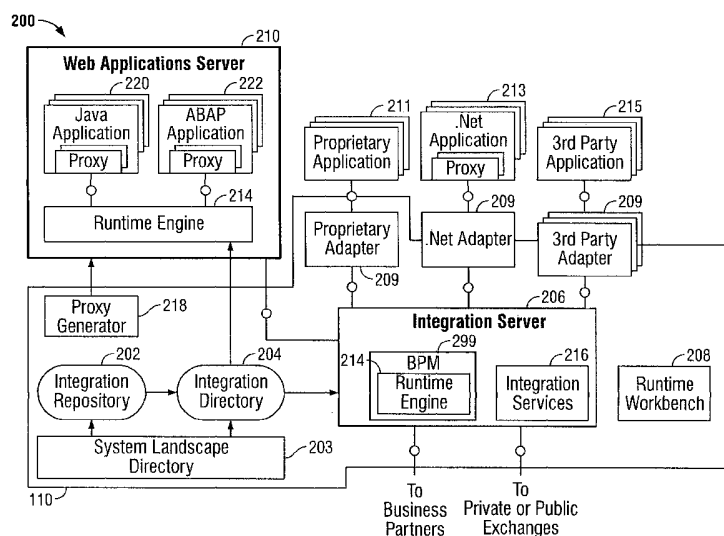
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[Continued on next page]

(54) Title: BUSINESS PROCESS MANAGEMENT FOR A MESSAGE-BASED EXCHANGE INFRASTRUCTURE



(57) Abstract: Methods and systems for managing integration of a heterogeneous application landscape are disclosed. The landscape is defined by one or more business process. A business process management system includes an integration server connected between two or more applications in the landscape. The integration server includes a business process engine configured to execute one or more business processes that define message-based interactions between the two or more applications. The business process management system further applications. The business process management system further includes a runtime engine, under direction of the business process engine, for executing one or more messaging services on the message-based interactions between the two or more applications.



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/005211

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F9/46

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 G06F

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 524 253 A (PHAM ET AL) 4 June 1996 (1996-06-04) column 1, line 15 - line 21 column 5, line 1 - column 6, line 3 column 6, line 66 - column 7, line 3 column 7, line 11 - line 29 column 7, line 50 - line 62 column 9, line 16 - column 10, line 27 column 11, line 53 - column 12, line 7 column 12, line 51 - line 60 column 13, line 38 - line 39 column 14, line 6 - line 16 column 15, line 53 - column 16, line 13 column 23, line 65 - column 27, line 44 -----	1-7, 15-20
X	WO 00/29948 A (THE CHASE MANHATTAN BANK) 25 May 2000 (2000-05-25) the whole document ----- -/-	1-7, 15-20

☒ 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

17 August 2005

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28/09/2005

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/005211

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 03/083600 A (SAP AKTIENGESELLSCHAFT; DEIMEL, ANTON; KIRCHGASSNER, WALTER; LIENERT,) 9 October 2003 (2003-10-09) the whole document	1-7, 15-20
X	AJAY BARVEY: "The MOM Player: JAVA MESSAGING SERVICE" INTERNET DOCUMENT, 'Online! 15 March 2002 (2002-03-15), XP002339993 Retrieved from the Internet: URL:http://web.archive.org/web/20020315155 844/http://www.networkmagazineindia.com/20 0109/technology2.htm> the whole document	1,15
L	-& INTERNET ARCHIVE: "Internet Archive Wayback Machine" INTERNET DOCUMENT, 'Online! XP002339994 Retrieved from the Internet: URL:http://web.archive.org/web/*/http://ww w.networkmagazineindia.com/200109/technolo gy2.htm> This document is cited to assess a date at which the associated document has been archived by a third party. First publication date of the main document is likely to be around September 2001 as suggested by its URL.	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/005211

Box II Observations where certain claims were found unsearchable (Continuation of item 2 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:
see FURTHER INFORMATION sheet PCT/ISA/210
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 III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

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

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.:

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

Continuation of Box II.2

Present independent claim 8 relates to a system solely characterized by the type of data it includes. Such a characterisation does not allow the skilled person to determine the scope for which a protection is sought. This claim is consequently so unclear, that a meaningful search over the whole of the claimed scope is impossible. Dependent claims 9 to 14 do not bring any further technical characteristic of the claimed subject-matter. Consequently, the search has not been carried out for the claim 8 and its dependent claims 9 to 14.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
T/EP2004/005211

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