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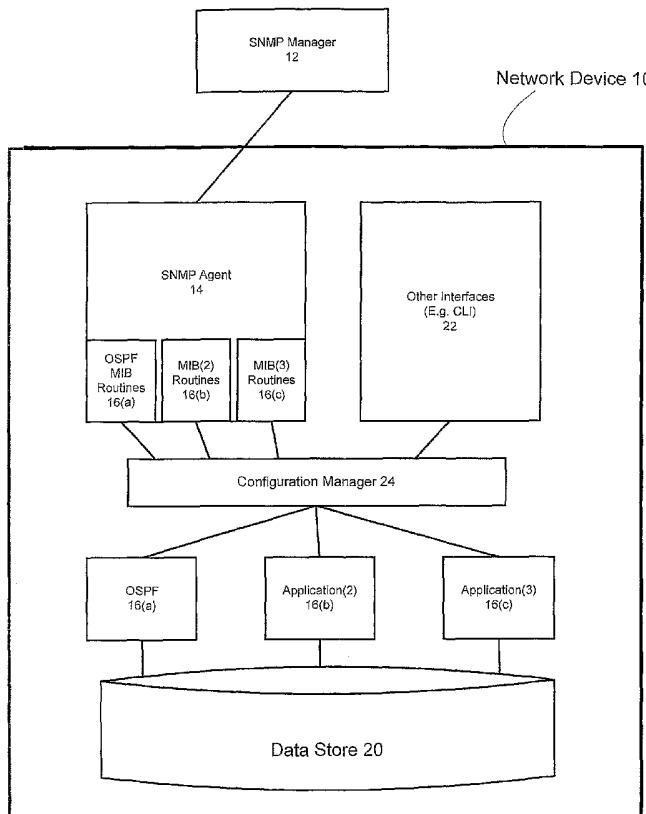
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR CONVERTING NETWORK MANAGEMENT PROTOCOL TO MARKUP LANGUAGE



(57) Abstract: A method is provided to convert network management protocol request into a markup language representation. In one embodiment, the present invention includes receiving a network management protocol request at a network device, generating a plurality of markup language tags and content embedded in the markup language tags based on the received request, and responding to the request using the plurality of markup language tags and content embedded in the markup language tags using a unified backend interface. In one embodiment, routines used to generate the plurality of markup language tags and content are generated automatically using an instrumentation module.

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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
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GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER 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) H04L		
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.
X	SOARES A ET AL: "Specification of a MIB XML for systems management" LOCAL COMPUTER NETWORKS, 2002. PROCEEDINGS. LCN 2002. 27TH ANNUAL IEEE CONFERENCE ON 6-8 NOV.2002, PISCATAWAY, NJ, USA,IEEE, 6 November 2002 (2002-11-06), pages 241-248, XP010628173 ISBN: 0-7695-1591-6 abstract	1,2,5, 7-10,16, 17,19, 28,29
Y	paragraph [0001] - paragraph [0002] paragraph [0004] - paragraph [0005] ----- -/--	3,30
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.		
<input checked="" type="checkbox"/> 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 24 October 2005	Date of mailing of the international search report 10. 01. 2006	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Lievens, K	

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International Application No
PCT/US2005/025818

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>MATSUMOTO S ET AL: "Network management with Intelligent Trader" COMPUTER SOFTWARE AND APPLICATIONS CONFERENCE, 2000. COMPSAC 2000. THE 24TH ANNUAL INTERNATIONAL TAIPEI, TAIWAN 25-27 OCT. 2000, LOS ALAMITOS, CA, USA, IEEE COMPUT. SOC, US, 25 October 2000 (2000-10-25), pages 161-163, XP010523761 ISBN: 0-7695-0792-1 abstract paragraph [0003] - paragraph [0004] -----</p>	<p>1,2,5, 7-10,28, 29</p>
Y	<p>EP 1 376 932 A (EXTREME NETWORKS) 2 January 2004 (2004-01-02) cited in the application paragraph [0003] - paragraph [0006] paragraph [0018] - paragraph [0023] paragraph [0028] - paragraph [0031] paragraph [0042] - paragraph [0044] -----</p>	<p>3,30</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/025818

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1376932	A	JP 2004005610 A	08-01-2004

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/025818

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:

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:

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.:

1-3,5,7-10,16,17,19,28-30

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: 1-3,5,7-10,16,17,19,28-30

A method, a device and a machine-readable medium having stored thereon data representing instructions including mapping values to a local format.

2. claims: 4 (dependent on claims 1 and 2),6,11-15, 18 (dependent on claims 16 and 17), 20-27

A method, a device and a machine-readable medium having stored thereon data representing instructions including automatically generating routines.
