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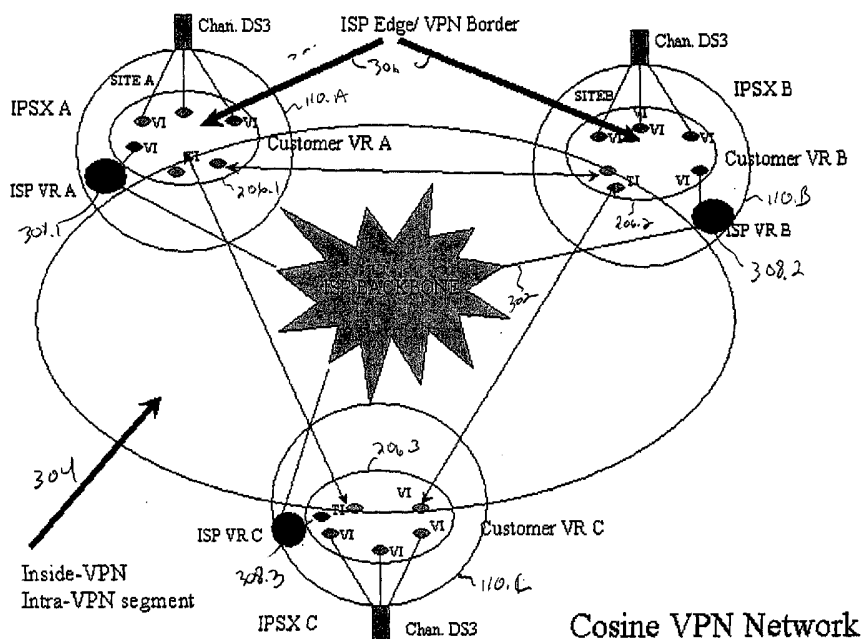
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  - (71) Applicant (for all designated States except US): COSINE COMMUNICATIONS, INC. [US/US]; 1200 Bridge Parkway, Redwood City, CA 94065 (US).
  - (72) Inventors; and
  - (75) Inventors/Applicants (for US only): SARKAR, Manojit [US/US]; 41575 Apricot Lane, Fremont, CA 94539 (US). KUMAR, Dileep [US/US]; 3266 Capriana Circle, San Jose, CA 95135 (US).
  - (74) Agent: VIKSNINS, Ann, S.; Schwegman, Lundberg, Woessner & Kluth, P.O. Box 2938, Minneapolis, MN 55402 (US).
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- Published:**  
— with international search report

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR MANAGING AND PROVISIONING VIRTUAL ROUTERS



(57) Abstract: Site reachability information is determined for a service processing switch that is communicably coupled to one or more sites. In addition, global routing profiles, customer site profiles and OSPF profiles are defined. The profile data, in addition to or instead of the reachability information is used to generate routing configuration data for one or more Virtual Routers and Virtual Private Networks implemented within the service processing switch.



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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.*

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/28936

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04L12/46 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

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, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	A. S. TANENBAUM: "Computer Networks, 3rd edition" 1996, PRENTICE HALL INTERNATIONAL, USA XP002189337	1,3,6, 11,13,16
Y	page 364, line 3 -page 365, line 23 page 348, line 22 -page 351, line 5 --- -/--	2,12

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  
 5 March 2002

Date of mailing of the international search report  
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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  
 Nocentini, I

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/28936

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>MIYOSHI HANAKI ET AL: "LAN/WAN MANAGEMENT INTEGRATION USING ATM CNM INTERFACE"                      1996 IEEE NETWORK OPERATIONS AND MANAGEMENT SYMPOSIUM (NOMS). KYOTO, APR. 15 - 19, 1996, IEEE NETWORK OPERATIONS AND MANAGEMENT SYMPOSIUM (NOMS), NEW YORK, IEEE, US,                      vol. 1 SYMP. 5,                      15 April 1996 (1996-04-15), pages 12-21,                      XP000641074                      ISBN: 0-7803-2519-2                      abstract</p> <p style="text-align: center;">-----</p>	2,12

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 01/28936

## 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.:

1-3, 6, 11-13, 16

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: 1-3,6,11-13,16

A method for generating a routing configuration using a defined "site profile".

2. Claims: 4,5,7-10,14,15

Method for managing a Virtual Private network.