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Patent Search

Invention Title	A SYSTEM AND METHOD FOR MANAGING PAGES IN A LOGICAL NETWORK GATEWAY
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Abstract:

ABSTRACT A SYSTEM AND METHOD FOR MANAGING PAGES IN A LOGICAL NETWORK GATEWAY [033] The present invention discloses a system and method for managing pages in a logical network gateway. The system includes, but not limited to, a processing system in a computer network that includes at least one hardware processor, the processing system configured to perform: providing, memory management services through paging while the data messages are forwarding to the networking layer; providing, a lookup map with a set of header fields for the data message to a particular identifier with its paging segment corresponding to a particular service that sends the data messages; and providing, a memory management of multiple pages, storing in a computer memory a selection indicating a memory object for the forwarded data messages and memory management policies for the memory object and managing the memory object for the forwarded data messages according to the stored selection; and managing the pages according to the selections in the lookup map. Accompanied Drawing [FIG. 1]

[Complete Specification](#)

Claims:We Claim:

1. A system for managing pages in a logical network gateway, comprising:
a processing system in a computer network that includes at least one hardware processor, the processing system configured to perform:
providing, memory management services through paging while the data messages are forwarding to the networking layer;
providing, a lookup map with a set of header fields for the data message to a particular identifier with its paging segment corresponding to a particular service that sends the data messages;
providing, a memory management of multiple pages, storing in a computer memory a selection indicating a memory object for the forwarded data messages and memory management policies for the memory object and managing the memory object for the forwarded data messages according to the stored selection; and
managing the pages according to the selections in the lookup map.
2. The system as claimed in claim 1, wherein each identifier corresponding to a different service and associated with a separate dynamically-updated data structure comprising instructions for forwarding data messages to the corresponding service.
3. The system as claimed in claim 1, wherein a specific dynamically-updated data structure associated with the each identifier and memory management policies to retrieve instructions for forwarding data messages to the specialized service, and forwarding the data message according to the retrieved instructions from the particular data structure associated with the particular identifier.
4. The system as claimed in claim 1 wherein the logical network gateway comprises logical switches to which the logical network endpoints connect and a logical router.

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Application Details

APPLICATION NUMBER	202141017310
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/04/2021
APPLICANT NAME	1 . Dr.Y.Mohana Roopa 2 . Dr.Ankur Goyal 3 . Dr.Hoshiyar Singh Kanyal 4 . Mr.Shivkant Kaushik 5 . Dr.Sarika Lohana 6 . Mr.Tarun Jaiswal 7 . Mr.Sharan 8 . Mr.Gaddam Sunil Kumar 9 . Dr.T.C.Manjunath 10 . Dr.Pavithra G
TITLE OF INVENTION	A SYSTEM AND METHOD FOR MANAGING PAGES IN A LOGICAL NETWORK GATEWAY
FIELD OF INVENTION	COMPUTER SCIENCE
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PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/04/2021

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

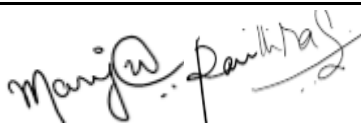
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“FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)	
				Application No.	
				Filing date:	
				Amount of Fee paid:	
				CBR No:	
				Signature:	
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]					
Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
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5. Dr.Sarika Lohana		INDIAN	India	Post- Doctoral Research Fellow, State Bank Institute of Leadership, Kolkata, West Bengal, India. Pin Code: 700160	
6. Mr.Tarun Jaiswal		INDIAN	India	Research Scholar, Department of Computer Application, National Institute of Technology (NIT), Raipur, Chhattisgarh, India. Pin Code: 492010	

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3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]				
Natural Person (✓)		Other than Natural Person		
		Small Entity ()	Startup ()	Others ()
4. INVENTOR(S) [Please tick (✓) at the appropriate category]				
Are all the inventor(s) same as the applicant(s) named above?	Yes (✓)		No ()	
If "No", furnish the details of the inventor(s)				
Name in Full	Nationality	Country of Residence	Address of the Inventor	
Same as Applicant				
5. TITLE OF THE INVENTION				
"A SYSTEM AND METHOD FOR MANAGING PAGES IN A LOGICAL NETWORK GATEWAY"				
6. AUTHORISED REGISTERED PATENT AGENT(S)		IN/PA No.		
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8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION					
Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)					
International application number			International filing date		
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION					
Original (first) application No.			Date of filing of original (first) application		
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT					
Main application/patent No.			Date of filing of main application		
12. DECLARATIONS					
(i) Declaration by the inventor(s)					
(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).					
I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.					
(a) Date 13/04/2021					
(b) Name			(c) Signature		
1.	Dr.Y.Mohana Roopa				
2.	Dr.Ankur Goyal				
3.	Dr.Hoshiyar Singh Kanyal				
4.	Mr.Shivkant Kaushik				
5.	Dr.Sarika Lohana				
6.	Mr.Tarun Jaiswal				
7.	Mr.Sharan				
8.	Mr.Gaddam Sunil Kumar				
9.	Dr.T.C.Manjunath				

10. Dr.Pavithra G



~~(ii) Declaration by the applicant(s) in the convention country~~

~~(In case the applicant in India is different than the applicant in the convention country:~~ the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

~~I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.~~

~~(a) Date~~

~~(b) Signature(s)~~

~~(c) Name(s) of the signatory~~

(iii) eclaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that: -

- I am/ We are in possession of the above-mentioned invention.
- The provisional/complete specification relating to the invention is filed with this application.
- ~~The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.~~
- There is no lawful ground of objection(s) to the grant of the Patent to me/us.
- I am/we are the true & first inventor(s).
- ~~I am/we are the assignee or legal representative of true & first inventor(s).~~
- ~~The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).~~
- ~~I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.~~
- ~~My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.~~
- ~~The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.~~
- ~~The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.~~

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/ Provisional specification)#	No. of pages : 19		
No. of Claim(s)	No. of claims : 06 No. of pages: 02		
Abstract	No. of pages: 01		
No. of Drawing(s)	No. of drawings: 02 No. of pages: 01		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

(b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).

(c) Sequence listing in electronic form

(d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).

(e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.

(f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.

(g) Statement and Undertaking on Form 3

(h) Declaration of Inventorship on Form 5

(i) Power of Authority

(j) **Total fee ₹.....in Cash/ Banker's Cheque /Bank Draft**

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I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 13th day of April, 2021

Signature: 

Name: Dr.Y.Mohana Roopa et. al.

To,
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Note: -

* Repeat boxes in case of more than one entry.

* To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.

* Tick (/)cross (x) whichever is applicable/not applicable in declaration in paragraph-12.

* Name of the inventor and applicant should be given in full, family name in the beginning.

- * Strike out the portion which is/are not applicable.
- * For fee: See First Schedule”;