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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR OPTIMIZING AND ELIMINATING CONGESTION FOR WAN INTERFACES WITHIN THE ACCESS DOMAIN

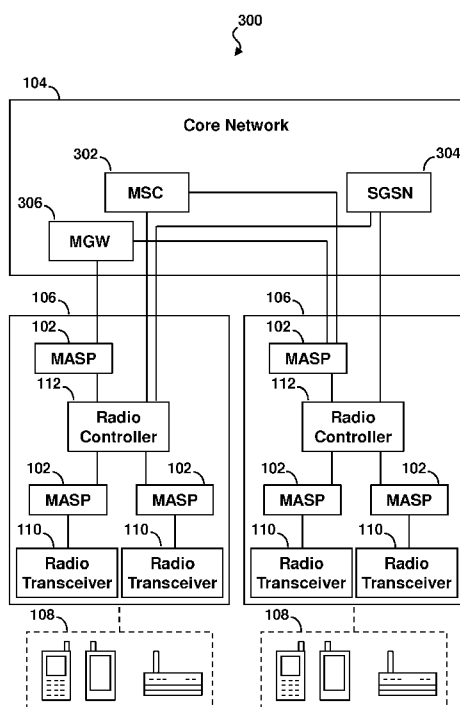


Fig. 3

(57) Abstract: A system and method for optimizing and eliminating congestion for WAN interfaces within an access domain are disclosed. In an exemplary embodiment, a message is received at an interface between a first sub-network and a second sub-network. The message corresponds to a data stream between the first and second sub-networks. Congestion at the interface between the first sub-network and the second sub-network is analyzed based on the received message and overall data rate. When the congestion at the interface exceeds a congestion threshold, the message is modified, causing the destination sub-network to alter the data stream in order to reduce the congestion at the interface. The modified message is then provided to the destination sub-network. The modification to the message may include specifying the use of a half-rate codec for the data stream in order to reduce the congestion.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04L 12/28 (2013.01)

USPC - 370/229

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)

USPC: 370/229

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

USPC: 370/229, 230, 230.1, 231-235 (keyword limited - see terms below)

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

PatBase; GOOGLE; GoogleScholar; GooglePatents

Search Terms: network, data, traffic, congestion, message, codec, interface, change, modify, bearer, list, back-haul, protect, security, integrity, rate, emergency, measure, analyze, optimize, sub-network

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2007/0081454 A1 (Bergamasco et al.) 12 April 2007 (12.04.2007), entire document, especially; abstract, para. [0013]-[0015], [0042], [0096]	1 - 23
Y	US 2008/0082324 A1 (Bourokba et al.) 03 April 2008 (03.04.2008), entire document, especially; abstract, para. [0033]-[0036], [0038]	1 - 23
A	US 5,627,829 A (Gleeson et al.) 06 May 1997 (06.05.1997), entire document	1 - 23

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Further documents are listed in the continuation of Box C.

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* 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 application or patent but published on or after the international filing date

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"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

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