GUEST TEK INTERACTIVE ENTERTAINMENT LTD. NOMADIX, INC.

Case IPR2019-00211 (Patent 7,953,857) Case IPR2019-00253 (Patent 8,626,922)

Nomadix's Demonstratives

Judge Sally C. Medley Judge Daniel J. Galligan Judge Jason W. Melvin

February 25, 2020

Nomadix Ex. 2008 Guest Tek v. Nomadix IPR2019-00211 and -00253



CLAIM CONSTRUCTION

"calculating a delay period"



requires calculating a length of time

address, etc. As such the traffic shaping module can be modified to base priority on packet attributes, protocol type and/or destination port addresses

Yet another example of the prioritization that can be performed by the traffic shaping module 34 in accordance with the present invention is the allocation of bandwidth based on a subscriber's quality of service. This type of allocation would typically guarantee a minimum level of bandwidth for the subscriber. For example, by monitoring the throughput of the gateway device 12, the traffic sharing module 34 can

prioritize the puckets of a sp paying for a specified percent so that the packets of that use priate rate so as to utilize the width. These and other prioriti for traffic shaping are often weighted fare queuing, defic detection or the like.

With reference to FIG. 4A, accordance with an embodim bandwidth management is ill scriber establishes an authori communication network throu dance with the present invent typically includes a predetern ably for the uplink and downl rization code, such as a user 210, the subscriber logs into the rized based on the subscrib establishes network access gateway device at the predeter authorization account. Next, agement is performed on dat gateway device to limit each which they have dynamically shaping functions, as describ reference to FIG. 4B. Managir ing a request from the subscr predetermined bandwidth value and adjusting the limit on the second bandwidth value. Th uplink bandwidth, the downlin and downlink bandwidths.

For purposes of clarity, it mined bandwidth requested b ing a network access service width, represents merely a typically a maximum transfer transfer rate obtained by the u subscriber will often find that that of their selected rate due tion. Yet at other times, wh underused, the user/subscriber may o

close to or at their selected transfer rate. In FIG. 4B, the operation of an embodiment of the band- 55 width manager on the data packets being delivered upstream. to the network is provided. In particular, at block 300, a new data packet is received for processing at a gateway device or similar network interface. At block 310, the data packet is packet and retrieving the authorization file associated therewith, preferably from a hash table embodied with a AAA service. Based upon (a) the predetermined bandwidth chosen by the subscriber as determined from the authorization file, time of the previous pocket sent by the subscriber and processed at the bandwidth manager, it is determined if the

packet needs to be quesed for a period of time to ensure that the subscriber does not receive a bandwidth greater than that which the subscriber selected, as determined at decision block 320. If the packet should be delayed, then at block 330, the appropriate delay is calculated and the packet is placed in the appropriate timeslot of a ring buffer. When the pointer of the ring buffer addresses the times lot in which the packet resides, then the packet is further processed by the traffic ng module of the bondwidth manager. In particular, at 140, it is determined if the packet needs to be queued for '857 patent

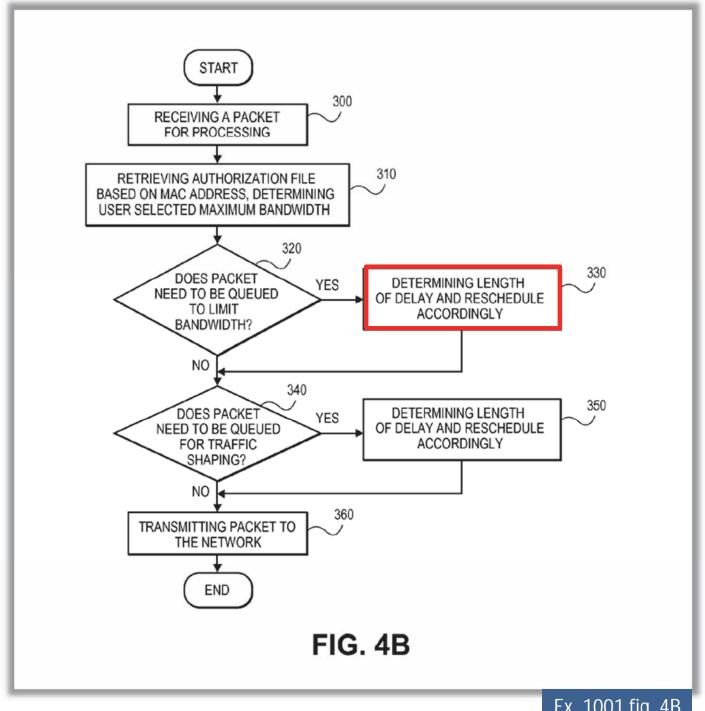
Based upon (a) the predetermined bandwidth chosen by the subscriber as determined from the authorization file; (b) the size of the current data packet; and/or (c) the size and time of the previous packet sent by the subscriber and processed at the bandwidth manager, it is determined if the packet needs to be queued for a period of time to ensure that the subscriber does not receive a bandwidth greater than that which the subscriber selected, as determined at decision block 320. If the packet should be delayed, then at block 330, the appropriate delay is calculated and the packet is placed in the appropriate timeslot of a ring buffer.

transfer rate that has been

FIG. 6 is a detailed flow diagram of the operation of the bandwidth manager in preparing data packets for transmission from the network to the downstream host, in accordance with an embodiment of the present invention. At block 500 the time at which the data nucket arrives at the eutoway device processed by extracting the MAC address from the data so is determined. The time of arrival is necessary if delay periods are to be determined and implemented for a given data packet. At block 510, the destination MAC address of the data packet is determined so that the data packet can be associated with the host from which it will be sent to. In this fashion, the (b) the size of the current data packet; and/or (c) the size and 63 receiving subscriber, or more specifically the subscriber's host, can be identified. At block 520 the gateway device determines whether the data packet is a broadcast (i.e. audio.

Ex. 1001¹ at col. 11 l. 63 - col. 12 l. 6 ¹All citations are to exhibits and papers from IPR2019-00211 unless otherwise indicated.

'857 patent



Ex. 1001 fig. 4B

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