US 20240214324A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0214324 A1

YI et al. (43) Pub. Date: Jun. 27, 2024

(54) **TRAFFIC ALARM METHOD AND APPARATUS BASED ON PROGRAMMABLE SWITCH, DEVICE AND MEDIUM**

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(21) Appl. No.: **18/389,820**

(22) Filed: **Dec. 20, 2023**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2023/075608, filed on Feb. 13, 2023.

(30) **Foreign Application Priority Data**

Dec. 22, 2022 (CN) 202211659106.3

Publication Classification

(51) **Int. Cl.**
H04L 47/6275 (2006.01)
H04L 47/12 (2006.01)

(52) **U.S. Cl.**
CPC ***H04L 47/6275*** (2013.01); ***H04L 47/12*** (2013.01)

(57) **ABSTRACT**

A traffic alarm method and apparatus based on a programmable switch, a device and a medium. The method monitors traffic with different priorities, when the traffic is greater than or equal to a threshold, the programmable switch may give a real-time alarm on a data plane and return low priority traffic information in a current network back to a sending end, and the sending end may adjust a task priority through alarm information. The present disclosure uses a programmable switch device, the lower priority traffic information may be alarmed to the sending end in real time on the data plane without passing through a controller, an alarm delay is significantly reduced, the sending end may adjust a sending rate timely, real-time scheduling of network traffic is achieved, high priority traffic transmission is ensured, and meanwhile link utilization is improved.