



US 20230231798A1

(19) **United States**

(12) **Patent Application Publication**
Chunduri et al.

(10) **Pub. No.: US 2023/0231798 A1**

(43) **Pub. Date: Jul. 20, 2023**

(54) **CONDITIONAL ROUTING DELIVERY IN A
COMPROMISED NETWORK**

Publication Classification

(71) Applicant: **Futurewei Technologies, Inc.**, Addison,
TX (US)

(51) **Int. Cl.**

H04L 45/00 (2006.01)

H04L 45/302 (2006.01)

(72) Inventors: **Uma S. Chunduri**, Fremont, CA (US);
Stewart Bryant, Merstham (GB);
Alexander Clemm, Los Gatos, CA
(US); **Toerless Eckert**, Mountain View,
CA (US); **Richard LI**, Fremont, CA
(US)

(52) **U.S. Cl.**
CPC **H04L 45/22** (2013.01); **H04L 45/302**
(2013.01)

(73) Assignee: **Futurewei Technologies, Inc.**, Addison,
TX (US)

(57) **ABSTRACT**

A computer-implemented method for processing a data packet in a network node includes determining a level of deterioration of a primary path between the network node and the destination node. The determined level of deterioration is based at least on a non-congestion-related loss for a primary link associated with one or more subsequent hops of the data packet from the network node toward the destination node along the primary path. Based on the determined level of deterioration of the primary path being above a threshold, the primary path is changed to an alternate path from the network node to the destination node. The data packet is forwarded to a next network node on the alternate path.

(21) Appl. No.: **18/188,897**

(22) Filed: **Mar. 23, 2023**

Related U.S. Application Data

(63) Continuation of application No. PCT/US2020/
070587, filed on Sep. 28, 2020.

600

