

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局



(10) 国际公布号
WO 2025/241105 A1

(43) 国际公布日
2025 年 11 月 27 日 (27.11.2025)

(51) 国际专利分类号:
H04L 45/48 (2022.01)

(21) 国际申请号: PCT/CN2024/094652

(22) 国际申请日: 2024 年 5 月 22 日 (22.05.2024)

(25) 申请语言: 中文

(26) 公布语言: 中文

(71) 申请人: 新华三技术有限公司 (NEW H3C TECHNOLOGIES CO., LTD.) [CN/CN]; 中国浙江省杭州市滨江区长河路466号 310052 (CN)。

(72) 发明人: 汪萌 (WANG, Meng); 中国北京市朝阳区广顺南大街 8 号院 1 号楼利星行中心 A座640室 100102 (CN)。

(74) 代理人: 北京柏杉松知识产权代理事务所 (普通合伙) (PATENTSINO IP FIRM); 中国北京市朝阳区小营北路 53 号院中源科技大厦3号楼4层 100101 (CN)。

(81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI,

GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW。

(84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

本国际公布:

— 包括国际检索报告(条约第21条(3))。

(54) Title: COMMUNICATION METHOD, SYSTEM AND APPARATUS, NETWORK DEVICE, AND TARGET DEVICE

(54) 发明名称: 一种通信方法、系统、装置、网络设备、目标设备

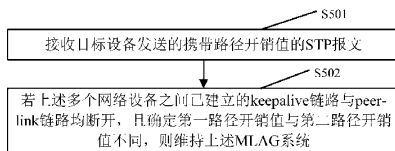


图5

S501 Receive an STP packet carrying a path overhead value and sent by a target device
S502 If a keepalive link and a peer-link that have been established among a plurality of network devices are both disconnected and it is determined that a first path overhead value is different from a second path overhead value, maintain an MLAG system

(57) Abstract: Embodiments of the present application relate to the technical field of communications, and provide a communication method, system and apparatus, a network device, and a target device, the communication method being applied to any network device among a plurality of network devices forming an MLAG system. The method comprises: receiving an STP packet carrying a path overhead value and sent by a target device, wherein the path overhead value is used for indicating the number of interfaces in a normal state among a plurality of interfaces; and if a keepalive link and a peer-link that have been established among a plurality of network devices are both disconnected and it is determined that a first path overhead value is different from a second path overhead value, maintaining an MLAG system. Use of the embodiments of the present application can ensure normal forwarding of network traffic.

(57) 摘要: 本申请实施例提供了一种通信方法、系统、装置、网络设备、目标设备, 涉及通信技术领域, 应用于组成MLAG系统的多个网络设备中的任一网络设备, 上述方法包括: 接收目标设备发送的携带路径开销值的STP报文, 路径开销值用于指示: 多个接口中处于正常状态的接口数量; 若多个网络设备之间已建立的keepalive链路及peer-link链路均断开, 且确定第一路径开销值与第二路径开销值不同, 则维持MLAG系统。应用本申请实施例能够保证网络流量的正常转发。

WO 2025/241105 A1