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(19) 世界知识产权组织
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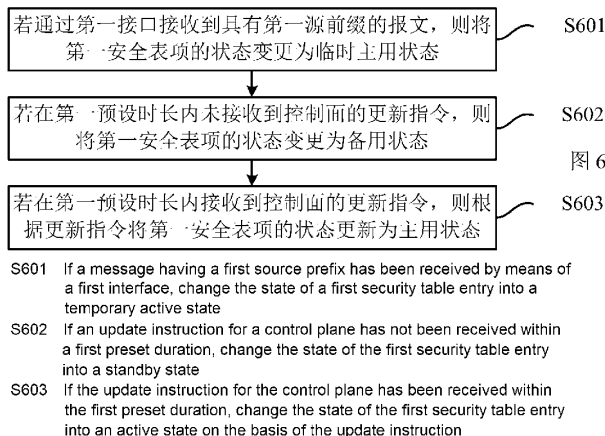
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- (81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, 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,

(54) Title: SECURITY TABLE ENTRY SWITCHING METHOD AND APPARATUS, NETWORK DEVICE AND STORAGE MEDIUM

(54) 发明名称: 一种安全表项切换方法、装置、网络设备及存储介质



(57) Abstract: The embodiments of the present application relate to the technical field of communications. Provided are a security table entry switching method and apparatus, a network device and a storage medium. The method is applied to a data plane of a network device, wherein the network device comprises a first security table entry, the first security table entry comprises an identifier of a first interface and a first source prefix, the first security table entry corresponds to a standby path leading to a destination end, and the state of the first security table entry is a standby state. The method comprises: if a message having the first source prefix has been received by means of the first interface, changing the state of the first security table entry into a temporary active state; if an update instruction for a control plane has not been received within a first preset duration, changing the state of the first security table entry into the standby state; and if the update instruction for the control plane has been received within the first preset duration, changing the state of the first security table entry into an active state on the basis of the update instruction. Thus, the FRR convergence speed can be improved while preventing security vulnerabilities.

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(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))。

(57) 摘要: 本申请实施例提供一种安全表项切换方法、装置、网络设备及存储介质，涉及通信技术领域，该方法应用于网络设备的数据面，网络设备包括第一安全表项，第一安全表项包括第一接口的标识和第一源前缀，第一安全表项与到达目的端的备用路径对应，第一安全表项的状态为备用状态；该方法包括：若通过第一接口接收到具有第一源前缀的报文，则将第一安全表项的状态变更为临时主用状态；若在第一预设时长内未接收到控制面的更新指令，则将第一安全表项的状态变更为备用状态；若在第一预设时长内接收到控制面的更新指令，则根据更新指令将第一安全表项的状态变更为主用状态。可以在防止安全漏洞的前提下提高FRR收敛速度。