Title (en)

TECHNIQUES FOR KEY EXCHANGE TO ESTABLISH SECURE CONNECTION IN NETWORK FUNCTION VIRTUALIZATION ENVIRONMENT

Title (de)

TECHNIKEN FÜR DEN SCHLÜSSELAUSTAUSCH ZUM AUFBAU EINER SICHEREN VERBINDUNG IN EINER NETZWERKFUNKTIONVIRTUALISIERUNGSUMGEBUNG

Title (fr)

TECHNIQUES D'ÉCHANGE DE CLÉ POUR ÉTABLIR UNE CONNEXION SÉCURISÉE DANS UN ENVIRONNEMENT DE VIRTUALISATION DE FONCTION DE RÉSEAU

Publication

EP 3563513 A1 20191106 (EN)

Application

EP 16925910 A 20161230

Priority

CN 2016113494 W 20161230

Abstract (en)

[origin: WO2018120017A1] An apparatus (800) for a key exchange to establish a secure connection in a network function virtualization environment. The apparatus (800) exchanges an encrypted session key (410) between virtual network functions (VNF-A, VNF-B, VNF-C) executed by respective virtual machines (160-1 to 160-N) to establish the secure connection over a network connection, and uses a hardware security module (150) coupled with a processor (110) that supports at least one of the respective virtual machines (160-1 to 160-N). The hardware security module (150) facilitates encryption and decryption of the exchanged encrypted session key (410) via use of a virtual network function fingerprint (210, 220) for at least one of the virtual network functions(VNF-A, VNF-B, VNF-C).

IPC 8 full level

H04L 9/08 (2006.01)

CPC (source: EP)

H04L 9/0822 (2013.01); **H04L 9/0866** (2013.01); **H04L 9/0897** (2013.01); H04L 2209/60 (2013.01)

Citation (search report)

See references of WO 2018120017A1

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Designated extension state (EPC)

BA ME

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