

Title (en)

SECURE MESSAGE EXCHANGE IN A NETWORK

Title (de)

SICHERER NACHRICHTENAUSTAUSCH IN EINEM NETZWERK

Title (fr)

ÉCHANGE DE MESSAGES SÉCURISÉ DANS UN RÉSEAU

Publication

**EP 3231207 A1 20171018 (EN)**

Application

**EP 15801734 A 20151124**

Priority

- EP 14196712 A 20141208
- EP 2015077399 W 20151124

Abstract (en)

[origin: WO2016091574A1] An apparatus of a first node is provided for secure exchange of messages. A network authentication unit (902) is provided for performing an authentication procedure with a server to gain access to the mesh network, wherein the network authentication unit is configured to receive a network-wide key from the server. A peer authentication unit (903) is provided for performing an authentication procedure with a second node in the mesh network, wherein the peer authentication unit is configured to receive an identity of the second node through the mesh network, and to generate a pair-wise identity-based key between the first node and the second node, based on the pre-shared identity-based key material and the identity of the second node. A combined key generator (904) is provided for generating a combined key by combining the network-wide key with the pair-wise identity-based key.

IPC 8 full level

**H04W 12/04** (2009.01); **H04W 12/06** (2009.01)

CPC (source: EP)

**H04L 9/0844** (2013.01); **H04L 9/0847** (2013.01); **H04L 9/0866** (2013.01); **H04L 9/321** (2013.01); **H04W 12/50** (2021.01); **H04L 63/0464** (2013.01); **H04L 63/126** (2013.01); **H04L 63/164** (2013.01); **H04W 12/06** (2013.01); **H04W 12/10** (2013.01); **H04W 12/71** (2021.01); **H04W 84/18** (2013.01)

Citation (search report)

See references of WO 2016091574A1

Designated contracting state (EPC)

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