

Title (en)

METHOD AND SYSTEM FOR DERIVING AN ENCRYPTION KEY USING JOINT RANDOMNESS NOT SHARED BY OTHERS

Title (de)

VERFAHREN UND SYSTEM ZUM ABLEITEN EINES VERSCHLÜSSELUNGSSCHLÜSSELS UNTER VERWENDUNG EINER NICHT MIT ANDEREN GETEILTEN VERBUNDZUFÄLLIGKEIT

Title (fr)

PROCEDE ET SYSTEME PERMETTANT DE DERIVER UNE CLE DE CHIFFREMENT AU MOYEN D'UN CARACTERE ALEATOIRE COMBINE NON PARTAGE PAR D'AUTRES

Publication

EP 1847060 A2 20071024 (EN)

Application

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Priority

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- US 64748205 P 20050127
- US 71617705 P 20050912
- US 73433105 P 20051107
- US 31838105 A 20051223

Abstract (en)

[origin: WO2006081122A2] The present invention is related to a method and system for deriving an encryption key using joint randomness not shared by others (JRNSO). Communicating entities generate JRNSO bits from a channel impulse response (CIR) estimate and the JRNSO bits are used in generation of an encryption key. The authentication type may be IEEE 802.1x or a pre-shared key system. In an IEEE 802.1x system, a master key, a pairwise master key or a pairwise transient key may be generated using the JRNSO bits. The encryption key may be generated by using a Diffie-Hellman key derivation algorithm.

IPC 8 full level

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