Title (en)
ACCESS SYSTEM UTILIZING MULTIPLE FACTOR IDENTIFICATION AND AUTHENTICATION

Title (de)
ZUGANGSSYSTEM MIT MEHRFACHFAKTORIDENTIFIKATION UND AUTHENTISIERUNG

Title (fr)
SYSTEME D'ACCES UTILISANT UNE IDENTIFICATION ET UNE AUTHENTIFICATION MULTI-FACTEURS

Publication
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Application
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Abstract (en)
[origin: WO03065169A2] A method of securing an object at an access level includes selecting a profile for a user, including a credential having an encrypted credential public key, an encrypted credential public key encryption key, and a multiple-level access identifier. A working key is generated by binding a domain value with a random value. The object is encrypted with the working key. A random value encryption key is generated based on the shared value by decrypting the credential public key encryption key with the profile key encryption key, decrypting the credential public key with the credential public key encryption key, generating an ephemeral key pair, and generating a shared value based on the ephemeral private key and the credential public key. The random value is encrypted with the random value encryption key, and the encrypted object, the ephemeral public key, and the encrypted random value are provided for an authorized recipient. Authenticating the identity of a user to determine authorization for access to the system includes providing a plurality of factor-based data instances corresponding to a user, evaluating the factor-based data instances to determine if the user's identity is authenticated, and granting or restricting the user's access to the system if the user's identity is authenticated.

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