

ABSTRACT

AUTHENTICATION SYSTEM

5 The authentication system includes a user node, a plurality of service nodes, an authentication database storage unit, an authentication unit, a user information database storage unit, and a key distribution unit. Each service node is configured to provide a service corresponding to its domain. The authentication database storage unit is configured to store a secret key of the user node for each domain. The user
10 information database storage unit is configured to store an account used for associating a domain with the user node. The key distribution unit is configured to, upon receiving a domain change request from the user node and then confirming that the user information database stores the account associating the user node with a desired domain to which the user node intends to belong, obtain the secret key of the
15 user node associated with the desired domain from the authentication database storage unit, and send the obtained secret key to the user node. The authentication unit is configured to create a session key, and encrypt the created session key with the secret key corresponding to the desired domain, and send the encrypted session key to the user node.

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(Figure 1)