

Secure File Management, System and the Method Thereof for Cloud Storage

ABSTRACT

The present invention provides secure data management service for offering a
5 cloud computing service to users for storing documents thereon through users' devices
over a network. The secure data management service comprises a service provider for
hosting a data storage for storing the documents in an encrypted form, wherein the
encrypted documents are associated to respective licenses and fingerprints, the
documents are stored in an encrypted form; and users' devices having a program
10 module resided therein, the program module is adapted for remotely accessing the
cloud computing service in an authenticated manner, wherein the fingerprints are
distributed and structured in accordance with circles of users, the circles are formed in a
tree structure with circles from a lower level branched out from a higher level of the
tree structure, when a file is to be accessed by a non-owner user, the service provider
15 verifies a common ancestor circle at a higher level. A method thereof is also provided.

FIG. 1 for publication.