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**PONDICHERRY – VILLUPURAM – CUDDALORE -CHENNAI**

## **Attribute-Based Data Sharing Scheme Revisited in Cloud Computing**

### **ABSTRACT**

Ciphertext-policy attribute-based encryption (CP-ABE) is a very promising encryption technique for secure data sharing in the context of cloud computing. Data owner is allowed to fully control the access policy associated with his data which to be shared. However, CPABE is limited to a potential security risk that is known as key escrow problem whereby the secret keys of users have to be issued by a trusted key authority. Besides, most of the existing CP-ABE schemes cannot support attribute with arbitrary state. In this paper, we revisit attribute-based data sharing scheme in order to solve the key escrow issue but also improve the expressiveness of attribute, so that the resulting scheme is more friendly to cloud computing applications. We propose an improved two-party key issuing protocol that can guarantee that neither key authority nor cloud service provider can compromise the whole secret key of a user individually.

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## **EXISTING SYSTEM**

The existing CP-ABE schemes require a full trusted authority with its own master secret key as input to generate and issue the secret keys of users. Thus, the key escrow issue is inherent, such that the authority has the “power” to decrypt all the ciphertexts of system users. Chase et al. presented a distributed KP-ABE scheme to solve the key escrow problem in a multi-authority system. In this approach, all authorities, which are not colluded with each other, are participating in the key generation protocol in a distributed way, such that they cannot pool their data and link multiple attribute sets belonging to the same user..

## **DISADVANTAGES**

- Users to a loss of control over their data and raises reasonable security concerns that slow down the adoption of Cloud computing.
- Data owner is allowed to fully control the access policy associated with his data which to be shared

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## **PROPOSED SYSTEM**

we propose an improved key issuing protocol to resolve the key escrow problem of CP-ABE in cloud computing. The protocol can prevent KA and CSP from knowing each other's master secret key so that none of them can create the whole secret keys of users individually. Thus, the fully trusted KA can be semitrusted. Data confidentiality and privacy can be ensured. we present weighted attribute to improve the expression of attribute. The weighted attribute can not only express arbitrary-state attribute (instead of the traditional binary state), but also reduce the complexity of access policy. Thus the storage cost of ciphertext and computation complexity in encryption can be reduced.

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**SYSTEM REQUIREMENTS:****HARDWARE REQUIREMENTS:**

System : Pentium IV 2.4 GHz.

Hard Disk : 40 GB.

Floppy Drive : 1.44 Mb.

Monitor : 15 VGA Colour.

Mouse : Logitech.

Ram : 512 Mb.

**SOFTWARE REQUIREMENTS:**

Operating system : Windows XP/7.

Coding Language : ASP.net, C#.net

Tool : Visual Studio 2010

Database : SQL SERVER 2008

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