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**PONDICHERRY – VILLUPURAM – CUDDALORE- CHENNAI**

## **SECURE DATA SHARING IN CLOUD COMPUTING USING REVOCABLE-STORAGE IDENTITY-BASED ENCRYPTION**

### **ABSTRACT**

Cloud computing provides a flexible and convenient way for data sharing, which brings various benefits for both the society and individuals. But there exists a natural resistance for users to directly outsource the shared data to the cloud server since the data often contain valuable information. Thus, it is necessary to place cryptographically enhanced access control on the shared data. Identity-based encryption is a promising cryptographical primitive to build a practical data sharing system. However, access control is not static. That is, when some user's authorization is expired, there should be a mechanism that can remove him/her from the system. Consequently, the revoked user cannot access both the previously and subsequently shared data.

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## **EXISTING SYSTEM**

CLOUD computing enables users to get intended services irrespective of time and location across multiple platforms (e.g., mobile devices, personal computers), and thus brings great convenience to cloud users. Firstly, outsourcing data to cloud server implies that data is out control of users. This may cause users' hesitation since the outsourced data usually contain valuable and sensitive information. Secondly, data sharing is often implemented in an open and hostile environment, and cloud server would become a target of attacks. Even worse, cloud server itself may reveal users' data for illegal profit. Thirdly, data sharing is not static. That is, when a user's authorization gets expired, he/she should no longer possess the privilege of accessing the previously and subsequently shared data.

## **DISADVANTAGES**

Access control is not static. That is, when some user's authorization is expired, there should be a mechanism that can remove him/her from the system.

Consequently, the revoked user cannot access both the previously and subsequently shared data

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## **PROPOSED SYSTEM**

Cloud computing brings great convenience for people. Particularly, it perfectly matches the increased need of sharing data over the Internet. In this paper, to build a cost-effective and secure data sharing system in cloud computing, we proposed a notion called RS-IBE, which supports identity revocation and ciphertext update simultaneously such that a revoked user is prevented from accessing previously shared data, as well as subsequently shared data. Furthermore, a concrete construction of RS-IBE is presented. The proposed RS-IBE scheme is proved adaptive-secure in the standard model, under the decisional  $\ell$ -DBHE assumption.

## **ADVANTAGES**

RS-IBE scheme has advantages in terms of functionality and efficiency. Its feasible for a practical and cost-effective data-sharing system.

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## SYSTEM REQUIREMENTS:

### HARDWARE REQUIREMENTS:

Processor - Pentium –III

Speed - 1.1 Ghz

RAM - 256 MB(min)

Hard Disk - 20 GB

Floppy Drive - 1.44 MB

Key Board - Standard Windows Keyboard

Mouse - Two or Three Button Mouse

Monitor – SVGA

### SOFTWARE REQUIREMENTS:

Operating System - Windows 7/8

Application Server - Tomcat 5.0

Front - End - Java Back – End - MySQL

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