

# **Sending Secured Information Over Unsecured Channel Using Hash Chaining Approach**

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## **Abstract**

*Information and access to information is important in modern society. Network security is necessary to counter the threats and make network safe to use. There are some methods to prevent eavesdropping or falsification of information; encryption of information, authentication of user identifies and control of access rights. Public key cryptography is used to protect digital data going through and insecure channel form one place to another . Then sender's authenticity certifies that the data has not been falsified by using the public key cryptography. Digital signature is a user authentication method to prevent impersonations and symmetric key encryption is use to encrypt plaintext. This paper presents agent can securely send information over the communication channel and protect the sending information against un-trusted hosts using hash chaining approach. Chain rule can be secure travel over the communication channel and certainly reach designated host.*