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(57) Abstract :

The invention provides a system and method for secure internet key exchange consultations between a user and a cut-in apparatus. Central to the invention is a multi-faceted approach ensuring data confidentiality, integrity, and authenticity. Initiating with robust user authentication, the system establishes a secure communication channel, generates and exchanges encryption keys, and enables encrypted data transmission. The transmitted data is then forwarded to its intended recipient, where its integrity and authenticity are verified before decryption. This invention presents a comprehensive solution, seamlessly integrating advanced encryption, secure communication, and rigorous authentication to safeguard internet key exchange consultations.

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