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(57) Abstract :

The invention discloses a Cloud-Supported Framework for Secure Enterprise Email Encryption (100) comprising user devices (101), local encryption module (102), key exchange module (103), authentication layer (104), enterprise email servers (105), cloud key management system (106), decryption module (107), and compliance unit (108). The framework ensures robust encryption using AES-256 and RSA/ECC algorithms, cloud-based key lifecycle management, and secure access control. It enables enterprises to achieve scalability, regulatory compliance, and confidentiality of sensitive communications through seamless integration with cloud-hosted enterprise email platforms.

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