

FlexStream Secure and Tracked Email Technical Datasheet

FlexStream uses the SSLPost service for its secure and tracked email. The SSLPost Web Application is deployed as public SaaS (software as a service) solution. FlexStream provides registered users an easy-to-use interface to use the Web Application to send encrypted files and emails and manage all audit logs relating to opened or unopened communications.

The secure and tracked email service allow you to send a large electronic file (PDF-document) to a secure server where it is held and encrypted until your recipient picks it up by following the simple instructions within their notification email. With full delivery and receipt audit reporting included, you are able to track and trace the document throughout the delivery process.

Functionality

SSLPost Secure File Transfer is a simple and cost-effective method by which you can safely send files up to 6Mb over the Internet in a secure, managed and audited manner. Recipients receive a standard email containing a link which is used to access their file held on the secure SSLPost servers and download the content once user authentication has been performed successfully. All access attempts, successful or not are recorded and sealed. Therefore the audit log cannot be tampered with.

In addition to ensuring the security of the electronic documents transmitted, the secure and tracked email solution also utilizes a 'web beacon' pixel to check whether a notification email containing the link has been delivered to the client's email server and also when it has been opened in the client's email program. This web beacon solution is commonly used by email marketing companies for their standard email tracking facilities.

Encryption

Every document sent via SSLPost is encrypted with a unique AES 256-bit session key, and the contents are additionally signed with an RSA signature so no one can tamper with it.

SSLPost uses a mix of block and transport encryption processes. Secure Socket Layers (SSL) are used with a 256-bit key to encrypt communication from the sender to the SSLPost servers (most credit card transactions only use 128-bit encryption). The SSLPost servers encrypt using block encryption, which uses a combination of 256-bit symmetric and 2048-bit asymmetric processes. The result is then encrypted with a 256-bit seal key which is used to track access to the data if the recipient's private key is held client-side. Finally a hash value of the message is calculated and signed with the sender's private RSA key.

The electronic file is then stored encrypted on the SSLPost servers and a standard internet email is created containing a unique hyperlink to the stored file and any unencrypted message text that has accompanied the file, from the sender. This email is sent to the recipient over normal email (i.e. SMTP) and once they have clicked the hyperlink the decrypted file is only made available over a 256-bit SSL secure link once recipient authentication is successful.



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