Stabilix®

HISP Development And Management

Project Overview

Product for physicians, patients and other health care entities to securely communicate health records

The Client

A patient engagement company.

Key
Benefits

- Secure email communication
- EHNAC accreditation
- Interoperability

The
Business Challenge

The personal health information is one of the highly confidential data of an organization within a region, community or hospital system or even person. The personal health information (PHI), which HIPAA requires must remain private and confidential at all times, which includes data at rest and data at transit. Health information exchange (HIE) is the mobilization of health care information electronically across various organizations or persons. HIE provides the capability to electronically move clinical information among different health care information systems. The concept of using an Internet transport mechanism like email for the exchange of health information should make people worry about two specific risks that are inherent to information flow over an open network, which the Internet most certainly is, and which need to be managed

- The first is the risk that the content of the message and/or the attachments may be exposed, and thus fall into the wrong person's hands.
- The second specific risk that needs to be considered during the exchange of PHI is identity spoofing, which can lead to identity theft.

Our
Solution

To satisfy the customer needs, Stabilix proposed and implemented "Direct email health information exchange" framework, which is most powerful and secure way to transfer clinical data between any systems. The most important thing to know about Direct health information exchange is that it is just like an email, but with an added layer of security and trust-in-identity operating behind the scenes. This makes Direct exchange of messages and attachments suitable for electronic sharing of personal health information (PHI), which HIPAA requires must remain private and confidential at all times.

For ensuring data security, Stabilix implemented a security framework with AES encryption for data at rest and decryption and encryption key will be stored in a Hardware Security Module (HSM). Hardware security modules stores cryptographic keys inside a hardened, tamper-resistant, environment specific device. So extremely high sensitivity data's are protected by the HSM. This device is specially designed one so that no one can breach into it.

The product is accredited by EHNAC (https://www.ehnac.org/direct-trusted-agent/). Accreditation is a means to gain trusted status, and then to signal to others that you are trustworthy as a Direct exchange partner.

The product also offers

- Webmail client with client branding
- Direct Certificates are interoperable with other HISPs in the DirectTrust Accredited Trust Bundle
- EHNAC Accredited DTAAP Registration Authority
- EHNAC Accredited DTAAP Certificate Authority
- EHNAC Accredited DTAAP HISP
- Automated certificate expiry reminders
- User-request domain support in certificate generation
- Status update message via registered email after each process of RA and CA operation.
- XDR and XDM based direct communication

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