Cry - Project 1 (Project Plan): Presentation

2017-01-30

Motivation

- Overview
 - Example Use Case
 - Functionality

3 Expectation

Section 1

Motivation

end-user

- Problem: An end-user wants to send and receive secure messages with other end-users.
- Solution: Cry lets end-users establish secure communication via built-in cryptosystems.

cryptographer

- Problem: As new technologies emerge, and as technology improves, new cryptosystems need to be developed.
- Solution: Cry allows cryptographers to easily prototype and benchmark their new cryptosystems.

Section 2

Overview

Situation

- Alice (sender) wants to confidentially send a message to Bob (receiver).
- Eve (eavesdropper) wants to know that message.

Procedure

Alice (sender)

```
$ cry encrypt --cryptosystem=rsa \
> --public-key=825 --plaintext=4692301804
The ciphertext is 1110003333 (took 1 second).
```

Bob (receiver)

Eve (eavesdropper)

In the previous example:

- Cry is the cryptographic framework.
- RSA is a cryptosystem implemented in Cry.
- The key-generation, encryption, decryption, and eavesdropping algorithms are specific to RSA.

In general, with Cry:

- an end-user can use an implemented cryptosystem to confidentially send and receive messages with others.
- a cryptographer can:
 - prototype her own cryptosystems where the cryptographic algorithms are either newly defined or reused from different existing cryptosystems.
 - test her cryptosystems for security and performance.

Section 3

Expectation

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