JENS NEUHALFEN

MOVE DATA BETWEEN PARTIES

SLEEP BETTER WITH CONTENT ENCRYPTION

$E_{PK}(R)$

87

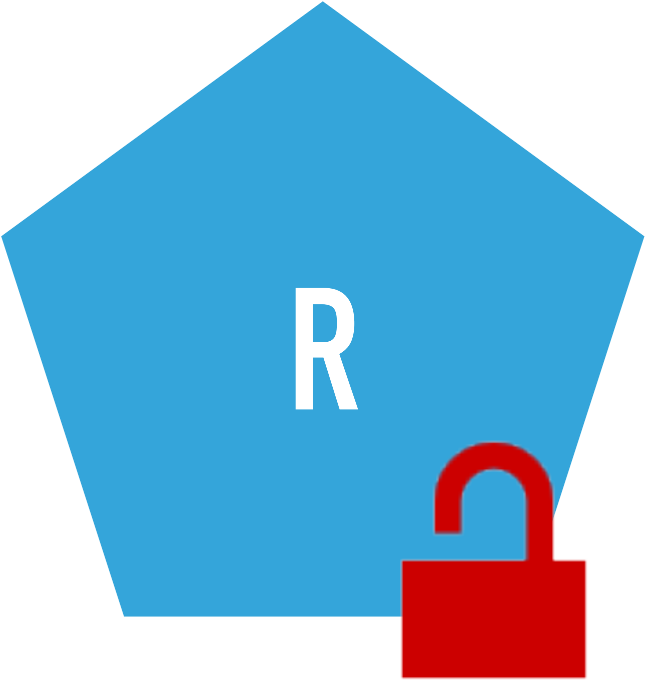
Problem: Data is exchanged between parties.

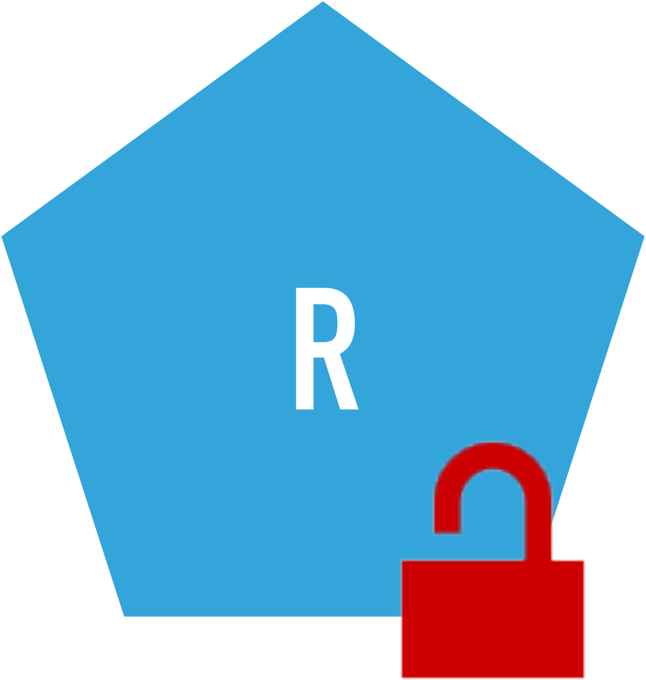
Solution: Use public key cryptography to protect data.

SENDER

STORE & FORWARD

RECIPIENT


R



R

Encrypt with public key

Decrypt with private key

NO SECRETS ON SENDER / STORE & FORWARD SERVER

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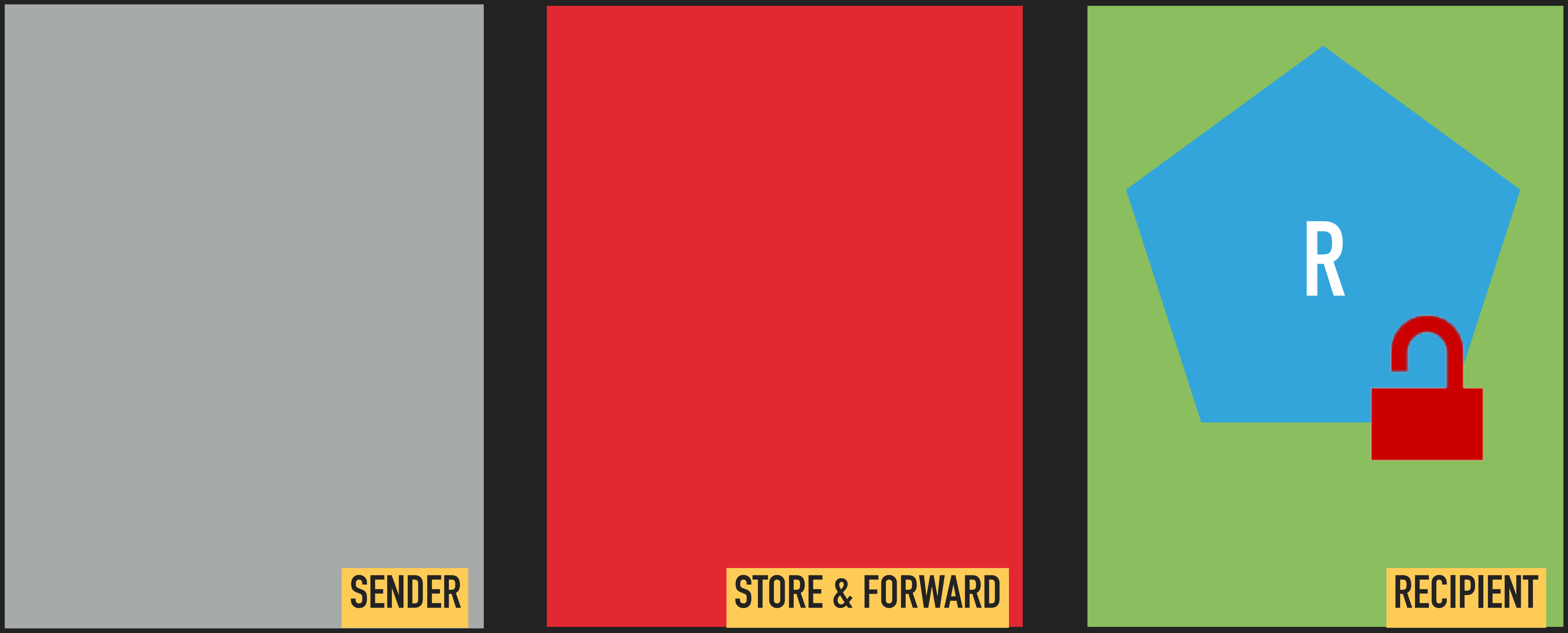

Encrypt with public key

Decrypt with private key

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MOVE DATA BETWEEN PARTIES

```
KeyringConfig keyringConfig = KeyringConfigs
       .withKeyRingsFromFiles(
        “/…/pubring.gpg”,
        “/…/secring.gpg”,
        withPassword(secKeyRingPassword));
try (
   final InputStream cipherTextStream = Files.newInputStream(sourceFile);

   final OutputStream fileOutput = Files.newOutputStream(destFile);
   final BufferedOutputStream bufferedOut = …

   final InputStream plaintextStream = BouncyGPG
           .decryptAndVerifyStream()
           .withConfig(keyringConfig)
           .andRequireSignatureFromAllKeys(“sender@example.com”)
           .fromEncryptedInputStream(cipherTextStream)
      ) {
              Streams.pipeAll(plaintextStream, bufferedOut);
      }
```

https://github.com/neuhalje/bouncy-gpg/