**Data Owner**

**Receiver**

**CSP**

**KGC**

**Proxy**

Upload File

File Stored Confirmation

Secret Key Generation Req

Secret Key Generated Response

Register End User

Registration Confirmation

Request the file

File request confirmation

View all Files

File sending response

Send data Modification report

View Attackers

Send Public Key Request

View Transactions

Public Key Response Confirmation

Authorize Users and Data Owners

Verify File

File verification report

Delete File

Delete Response