UMA
a Resources Aggregation approach

Agenda

- Requirements

- Scenario

- Architecture

- Request/Response format example

Requirements Analysis

- The Authorizing User must be able to define a policy for sharing an aggregation of protected resources for a specific purpose.

- The Requester must be able to access to Subject's distributed protected resources in order to satisfy a specific Application data requirements.

Scenario
Online Loan Request

- Alice protects resources at AM (e.g. Bank, creditInfo).

- Alice interacts with the online Financial Service Application to apply for a Loan.

- The Application, in order to process the loan request, needs to get access to Subject's information (i.e. Bank account, credit score).

- Alice gives consent to the Application request at AM.

- The Application obtains the list of protected resource.

http://kantarainitiative.org/confluence/display/uma/loan_scenario

Architecture
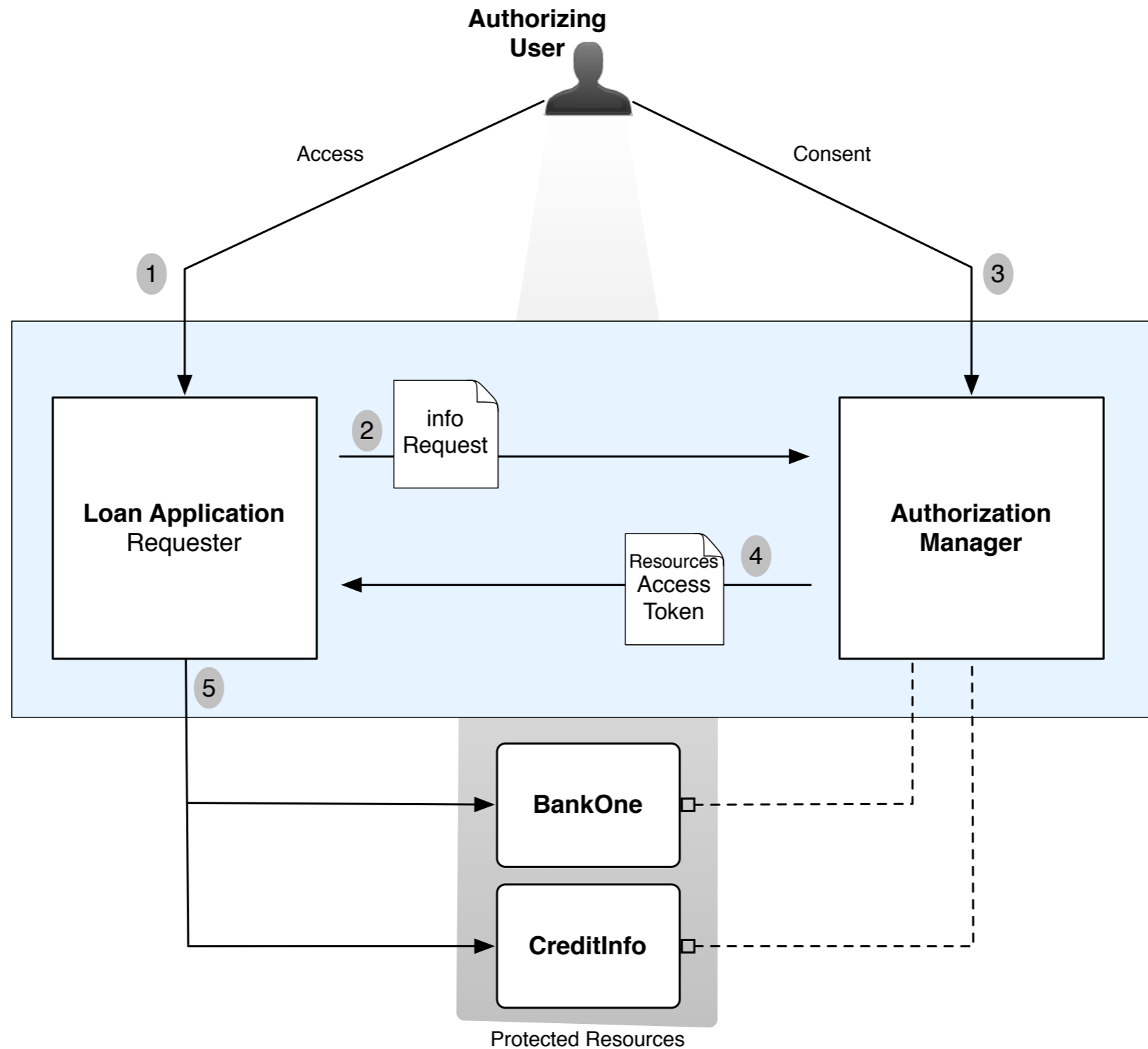
Application Info Request

```json
{
 "response_type": "code id_token",
 "client_id": "s6BhdRkqt3",
 "redirect_uri": "https://client.financialcredit.com/",
 "scope": "Financial credit profile",
 "state": "af0ifjsldkj", "userinfo":
   {
     "info_request":
       {
         "name": null,
         "address": null,
         "email": null,
         "payment_info": null,
         "credit_score": null,
       }
     "format": "signed"
   }
}
```

Example based on OpenID Connect Message specification (OpenID Request Object)
http://openid.net/specs/openid-connect-messages-1_0.html#OpenIDReq

UMA

AM Response

```
{
 "name": "Alice",
 "address": "5th avenue, NY"
 "email": "alice@example.com",
 "birthday": "01/01/1989",
 "_info_request": {
  "payment_info": "src1",
  "credit_score": "src2"
 },
 "_host_sources": {
  "src1": {"endpoint": "https://bank.example.com/claimsource"},
  "src2": {"endpoint": "https://creditagency.example.com/claimshere",
"access_token": "ksj3n283dke"}
```

Example based on OpenID Connect specification (distributed Claims):

http://openid.net/specs/openid-connect-messages-1_0.html#anchor18