Proof Request Negotiation

Case 1 - Current Implementation

Case Service needs attr1 but can uncover extra functionality if attr2 is given as well

Service: Give me attr1 and attr2!

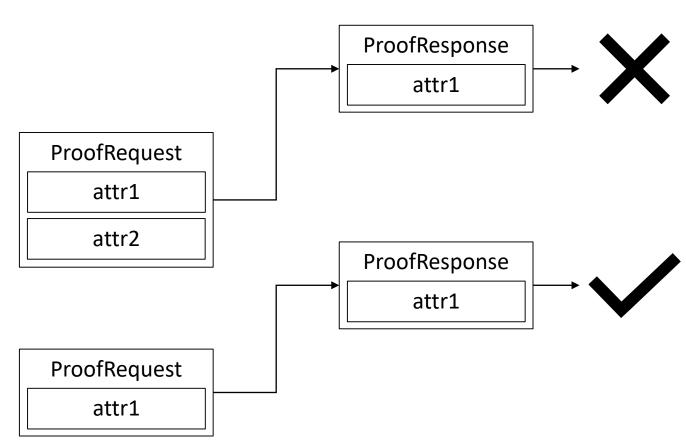
User: I can only provide attr1

Proof: false

Service: Give me attr1!

User: Here is attr1

Proof: true



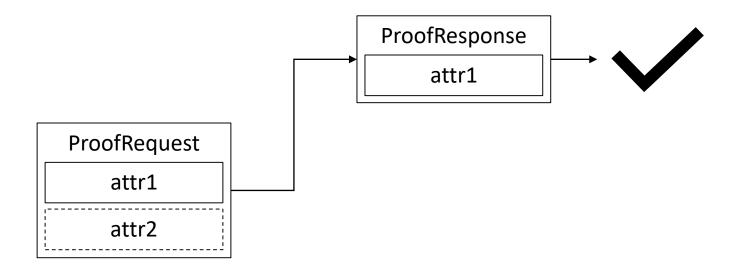
Idea: Optional Attributes

Case
 Service needs attr1 but can uncover extra functionality if attr2 is given as well

• **Service:** Give me attr1 and, if possible, attr2!

• User: I can only provide attr1

Proof: true



Case 2 - Current Implementation

Case
 Service need address data from attr1 (preferred) or attr2 (OK) or attr3 (worst case)

Service: Give me attr1!

• User: I don't have it

Proof: false

Service: Give me attr2!

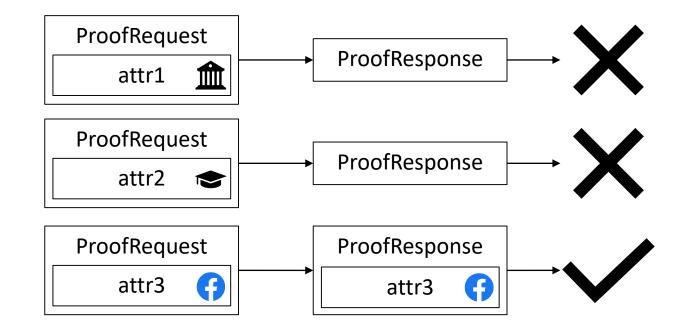
• User: I don't have it

Proof: false

Service: Give me attr3!

User: Here is attr3!

Proof: true



Idea 2 - Alternative Attributes

Case
 Service needs address data from attr1 (preferred) or attr2 (OK) or attr3 (worst case)

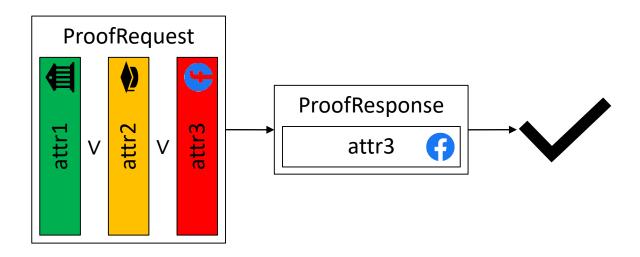
• **Service:** Give me attr1 (1.0) or attr2 (0.8) or attr3 (0.2)!

• **User:** Here is attr3!

Proof: true

· Service: OK,

but you have to pay an extra fee for delivery!

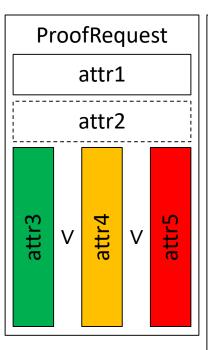


Changes

ProofRequest

attr1

attr2



```
"proof request":
 "nonce":"123432421212",
 "name": "proof req 1",
 "version":"0.\overline{1}",
 "requested attributes":
    "attr1 referent":
      "name":"attr1",
    "attr2 referent":
      "name":"attr2",
      "optional":true,
     . . .
    "attr3 referent":
     "name":"attr3",
     "alt group": "altgrp1",
     "weight":"1.0",
    "attr4 referent":
      "name": "attr4",
     "alt group": "altgrp1",
     "weight":"0.8",
    "attr5 referent":
      "name": "attr5",
     "alt group": "altgrp1",
      "weight":"0.2",
```

Out of scope / To be discussed

