# **Application Profile (with scope)**

### Requirements (MVP)

- 1. producer can only send messages that match a filter on type/property
- 2. can subscribe to a container other than inbox
- 3. filter subscription by type
- 4. filter subscription results by property (rule driven)
- 5. frame subscriptions results by property (data consumer driven)

### **Examples**

## E1: filter producer messages allowed by type

Use case: User wants to restrict producer content for security reasons

```
type: Authorization
agent: cproducer>
accessTo: <user>/inbox/
mode: Write
scope:
  matchObject:
    type: TestAction
```

#### E1.test

- 1. set ACL without scope
- 2. send message with producer key and type=TestAction
- 3. confirm test subscriber receives message
- 4. set ACL with scope
- 5. send message with producer key and type=TestAction
- 6. message should be rejected (requires middleware spec)
- 7. confirm subscriber does not receive message

# E2: Subscribe to a container

Use case: subscriber only wants changes for a container/collection

```
type: Authorization
agent: <subscriber>
accessTo: <user>/path/to/container/**
mode: Read
```

#### E2.test

- 1. set ACL
- 2. post a message to the container as subscriber
- 3. confirm: message should be rejected because ACL is read only
- 4. post a message to the container from an admin producer
- 5. confirm message is received by subscriber

## E3: filter subscription by type

Use case: Subscriber is only interested in certain Actions

```
type: Authorization
agent: <subscriber>
accessTo: <user>/inbox/
mode: Read
scope:
    type: AskAction
```

#### E3.test

- 1. set ACL
- 2. send a message of type=AskAction
- 3. confirm message for subscriber is delivered to the pod/outbox
- 4. send a message of type=Foo
- 5. confirm no message for subscriber is in the outbox

### E4: filter subscription results by property

Use case: user wants to protect personal information by removing personal data from subscription results

```
type: Authorization
agentClass: foaf:Agent # matches everyone
accessTo: <user> # matches the entire pod
scope:
    policy:
        - type: Transform
        name: RedactEmailAddresses
        value:
        email: $redact
```

#### E4.test

- 1. set ACL (on root I guess)
- 2. send a message that includes an email property
- 3. confirm message delivered to the outbox has email value of 'REDACTED'

### E5: frame results

Use case: Subscriber wants to normalize their messages

```
type: Authorization
agent: <subscriber>
accessTo: <resource>
scope:
   frame:
    Person:
       name: .
       email: [.]
```

#### E5.test

- 1. set ACL
- 2. send a message with a Person object containing more than name and email
- 3. confirm subscription receives only name and email properties
- 4. confirm subscription email is an array with only one value