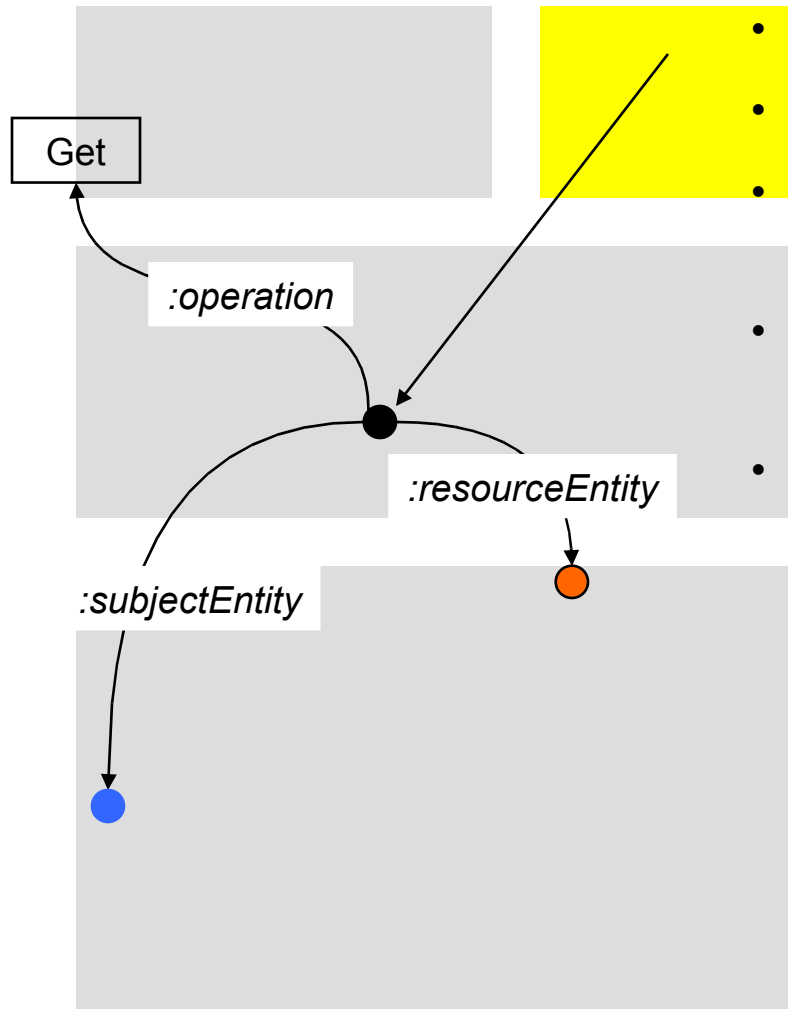


“Policy” Entities for Access Control

PolicyEntity and its Attributes

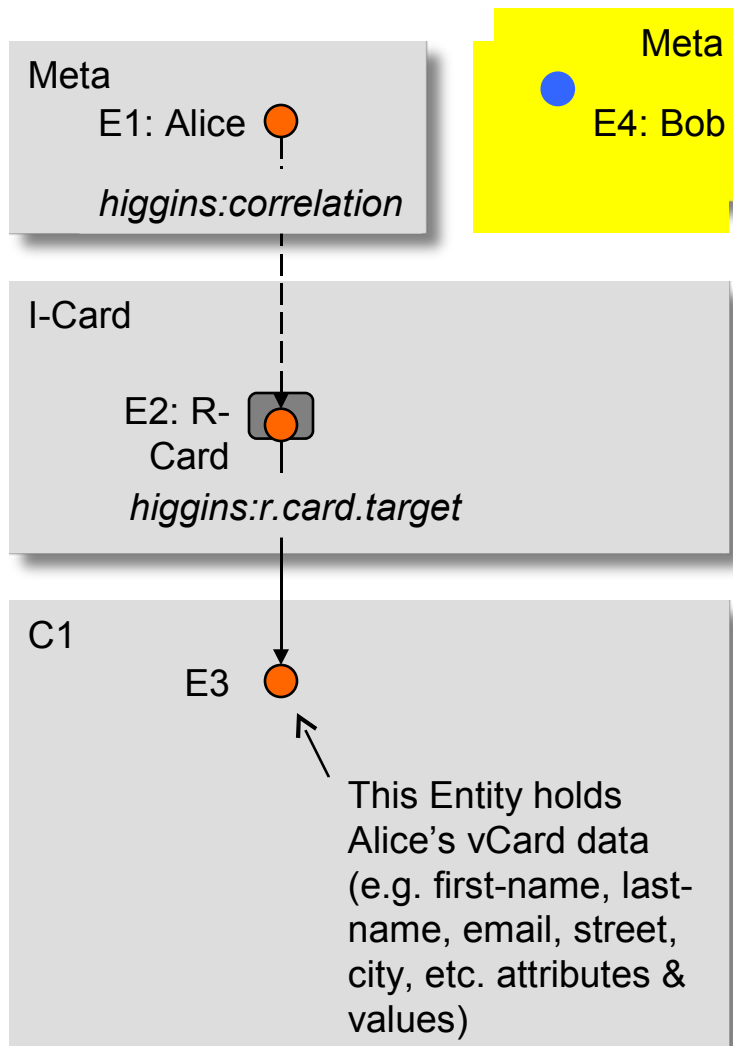


- **PolicyEntity** is a new subclass of Entity
- Three new attribute types
- *resourceEntity* – the Entity being protected (and its attributes)
- *subjectEntity* – the Entity the is the “observer” or “audience”
- *operation* is one of:
 - Get
 - Modify
 - Delete
 - Add

USE CASE:
**Alice wants to share a self-issued R-card
with Bob**

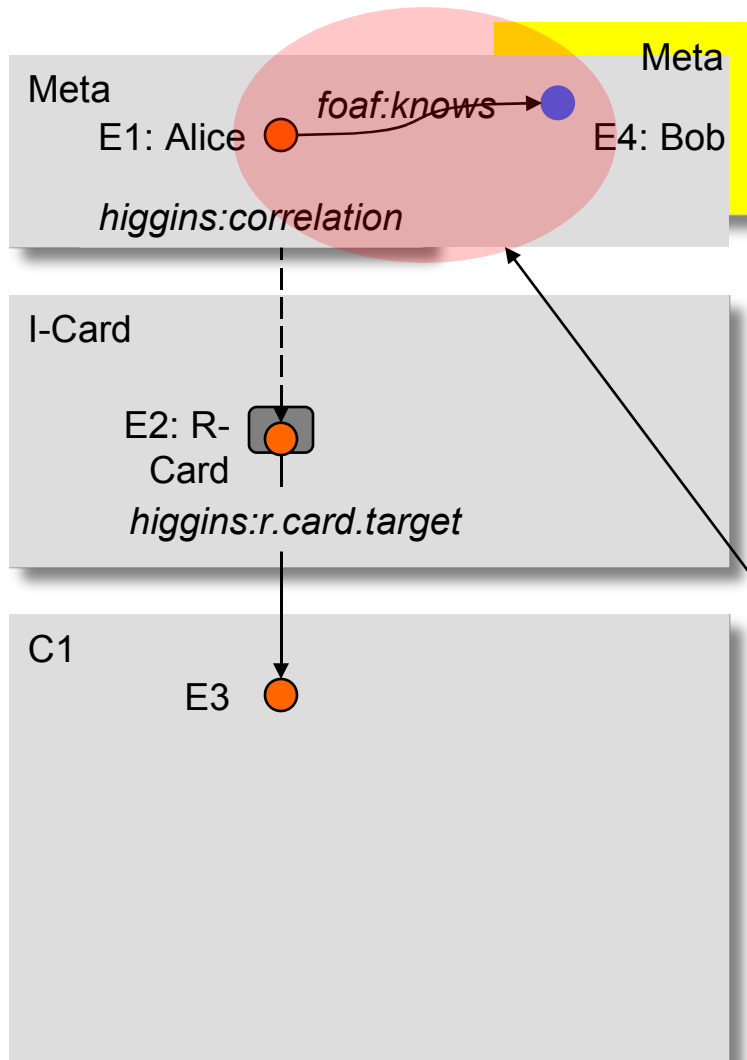
Note: Alice's R-card's data schema is the vCard schema

1) Initial Condition: Alice and her vCard



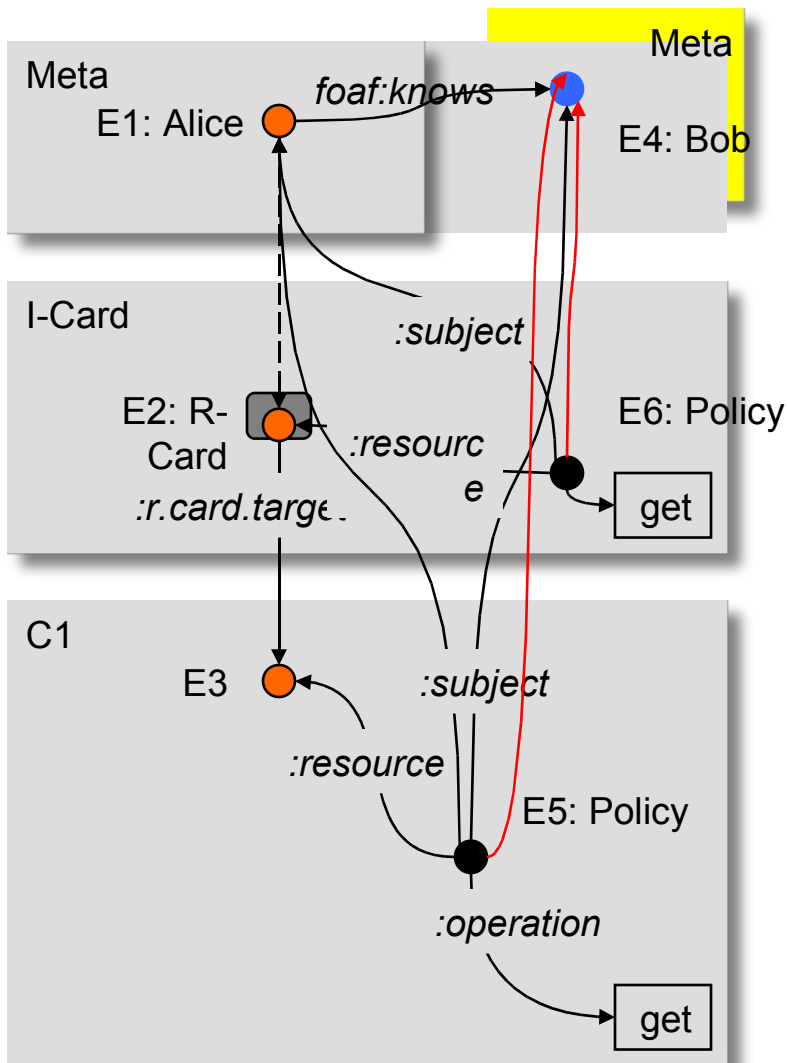
- E1 (=Alice) has no *simple* Attributes (other than EntityId))
- The I-Card Context holds all of the data representing Alice's I-Cards. Here it holds a self-issued R-Card (E2)
- The C1 Context holds E3, the "data" for R-Card E2. E3's simple Attributes hold vCard-like data values
- All grey contexts are all resident on Alice's I-Card Service. The one yellow Context lives on Bob's I-Card Service.

2) Alice wants to share with =Bob



- Alice selects E2
- She indicates that she wishes to share E2 using an OpenID
- She types in =Bob
- We assume here that =Bob does have an XDI endpoint associated with the OpenID =Bob
- The foaf:knows Attribute is added to E1
- [Policy Entities are NOT yet shown]

3) Alice shares E2 & E3 with =Bob



- Alice pushes the “Share” button...
- PolicyEntities are shown at left
- The two red attributes pointing to =Bob are added to Policy E6 and E5 respectively