UMA2 Legal role definitions

Some visualizations

(See the companion draft report A Proposed Licensing Model for User-Managed Access, available at: https://kantarainitiative.org/reports-recommendations/)

Formal UMA business model

Legal relationships: Basic conventions

Color conventions:

Legal (upper capital, blue) technical (lowercase, orange)
 (red)

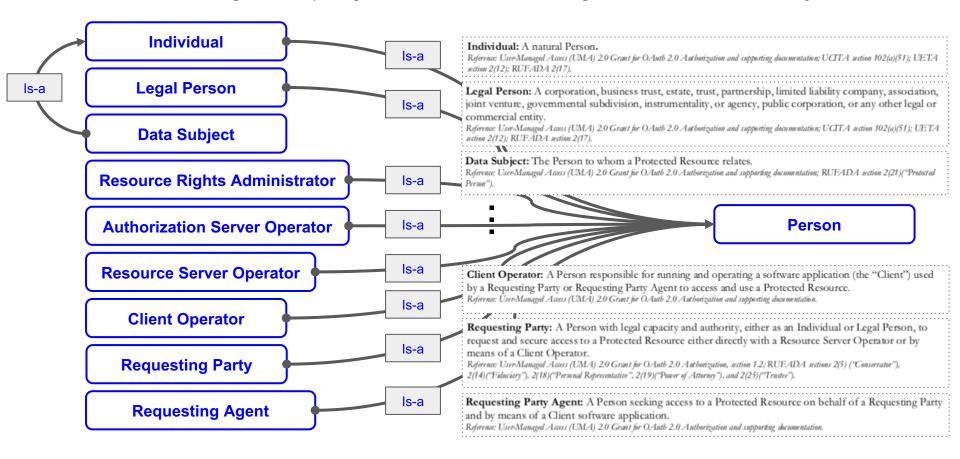
*/issue/question/note

Basic relationship types:

- Party role A is a kind/species of party role B: **Is-a** (for more detail, see Business Model definitions appendix)
- Party role A acts in technical entity role A: **Acts-as-a** (maps party defined in Business Model to technical entity defined in specs)

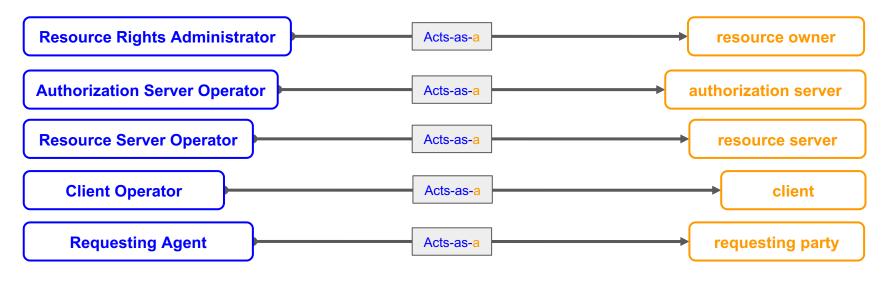
Legal relationships: Persons

Establishing basic party roles: Individual, Legal Person, Data Subject



Legal relationships: Legal-to-technical role bridges

Establishes how parties in legal roles can take part in UMA messaging flows



resource owner

An entity capable of granting access to a protected resource, the "user" in User-Managed Access. The resource owner MAY be an end-user (natural person) or MAY be a non-human entity treated as a person for limited legal purposes (legal person), such as a corporation.

requesting party

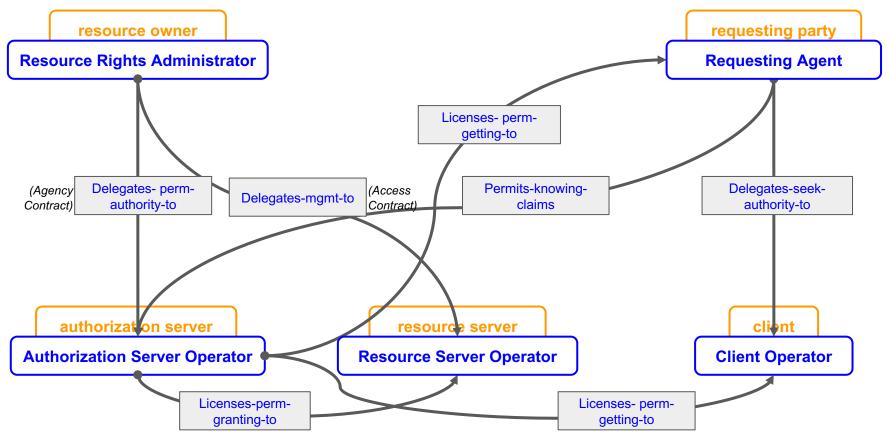
A natural or legal person that uses a client to seek access to a protected resource. The requesting party may or may not be the same party as the resource owner.

Legal relationships: Business relationship types

- Delegates authority for granting and managing access permissions to: **Delegates-perm-authority-to**
 - aka Agency Contract
- Delegates resource management to: Delegates-mgmt-to
 - aka Access Contract
- Licenses granting access permissions to: Licenses-perm-granting-to
- Licenses receiving access permissions to: Licenses-perm-getting-to
- Delegates access seeking authority to: Delegates-seek-authority-to
- Delegates permission to know/persist to: Permits-knowing-claims
- Party in role A also acts in role B: Acts-as-a

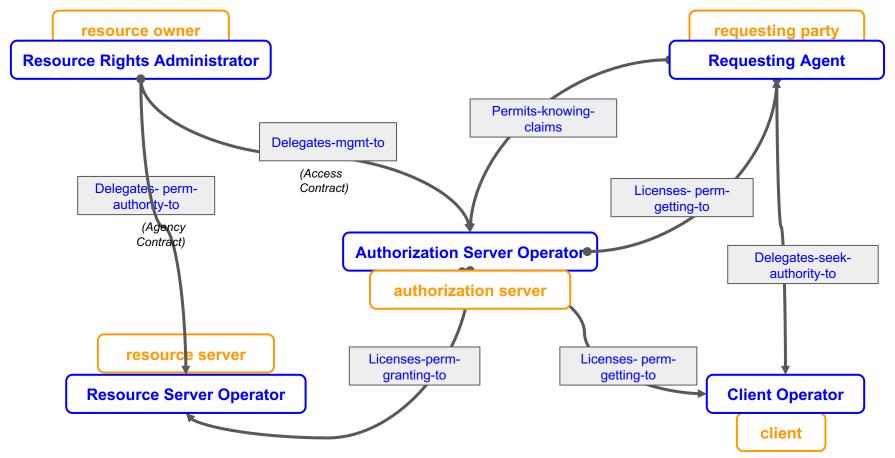
Legal relationships: "Endpoint to endpoint"

Intra-protocol relationships among parties in legal roles, illustrated



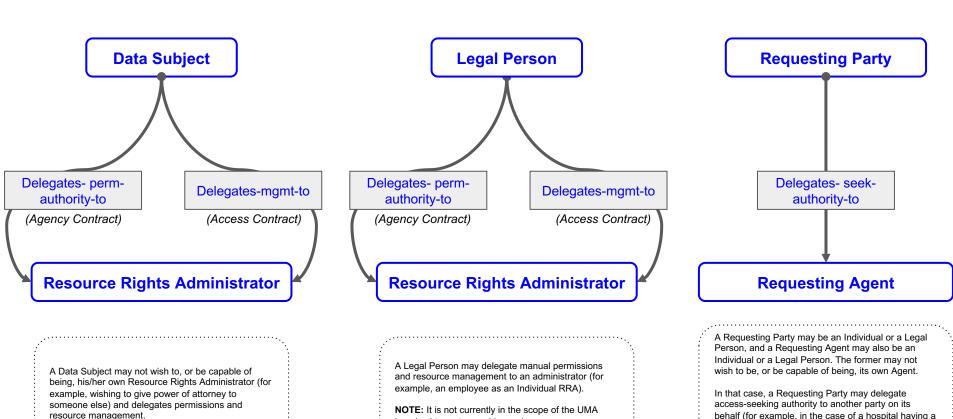
Legal relationships: "Endpoint to endpoint" - Flattened

Intra-protocol relationships among parties in legal roles, illustrated



Legal relationships: "Extending the ends"

How "offline" types of parties may play delegation roles, illustrated

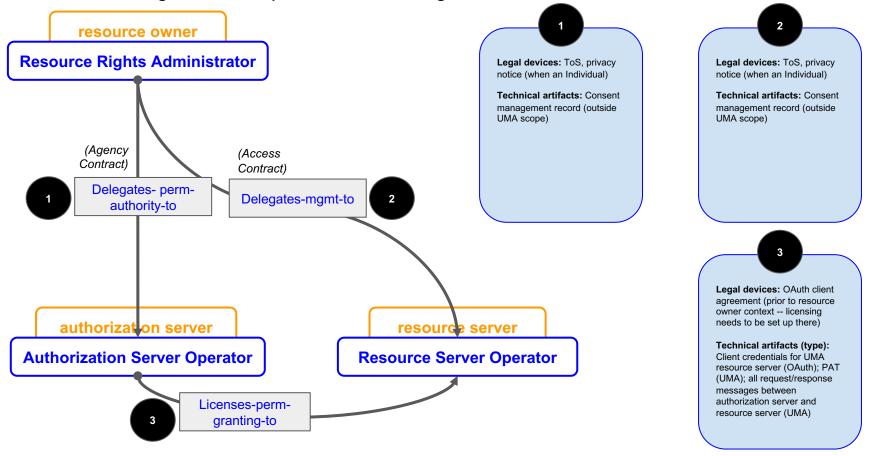


Legal subteam to consider such use cases.

specific clinician seek access as its employee, an

Individual RgPA).

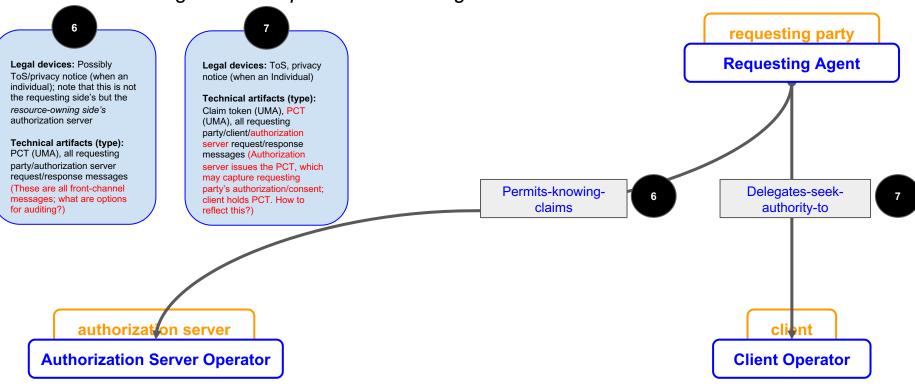
Making relationships and their changes auditable and machine-readable



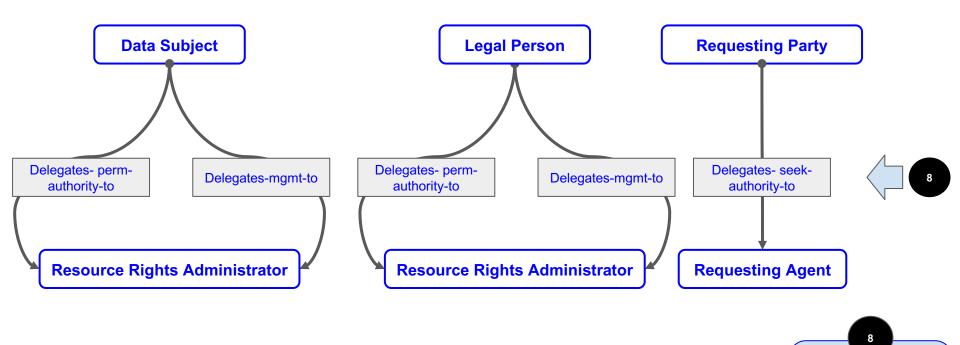
Making relationships and their changes auditable and machine-readable

requesting party **Requesting Agent** Legal devices: OAuth client Legal devices: (License agreement for UMA client builds on previous devices and (prior to requesting party is carried through technical context -- licensing needs to artifacts) be set up there) Licenses-perm-Technical artifacts (type): Technical artifacts (type): PCT (UMA), all authorization getting-to Client credentials for UMA server/requesting party client (OAuth); RPT (UMA); request/response messages claim token (UMA): all (UMA) (These are all frontauthorization server/client channel messages; what are request/response messages options for auditing?) (UMA); policies (outside the scope of UMA) authorization server client **Authorization Server Operator Client Operator** Licenses-permgetting-to

Making relationships and their changes auditable and machine-readable



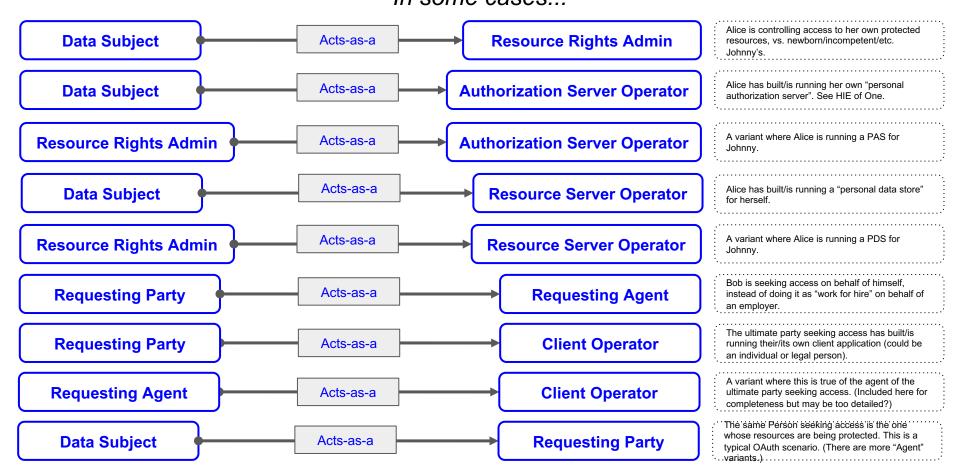
Making relationships and their changes auditable and machine-readable



Legal devices: Law or contract

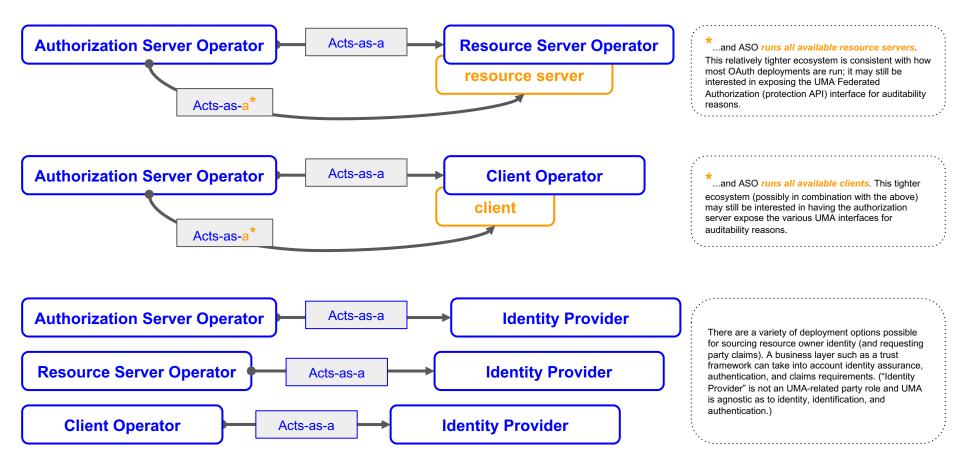
Technical artifacts: Outside
UMA scope

Legal relationships: One-party/multi-role scenario patterns

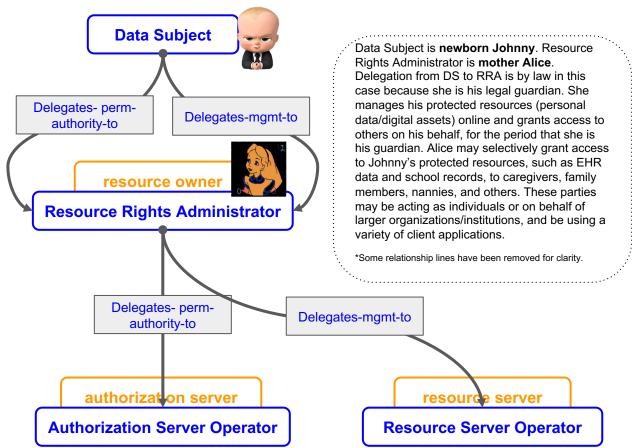


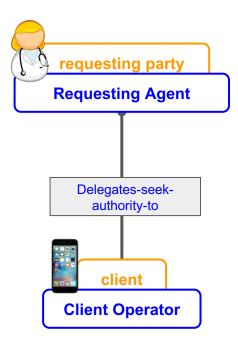
Legal relationships: More scenario patterns

In some cases...

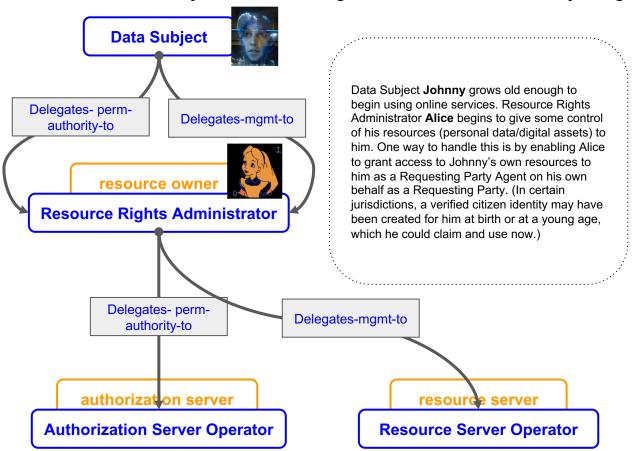


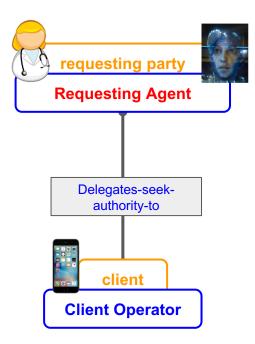
1. Data Subject is too young to use digital assets



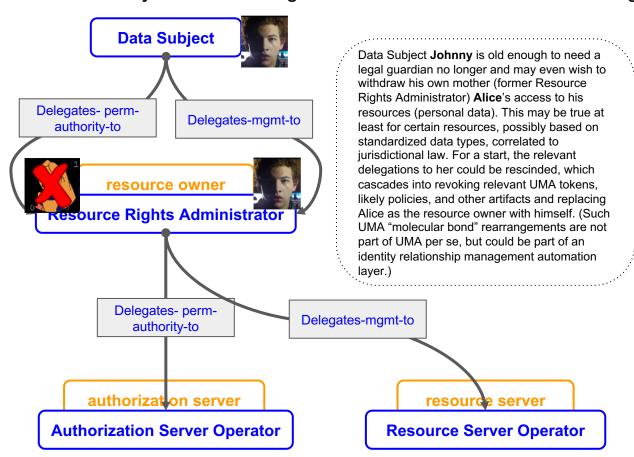


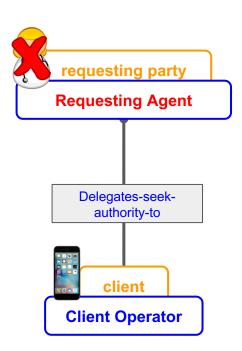
2. Data Subject is old enough to use assets but too young to consent to their use



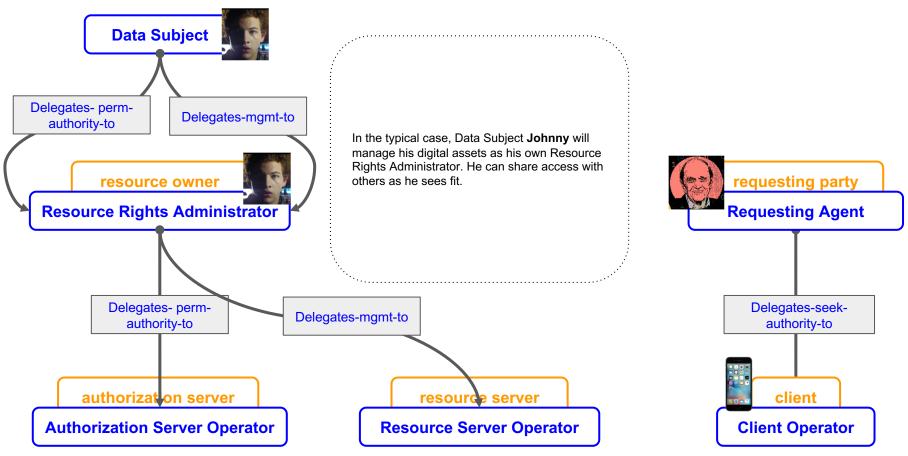


3. Data Subject is old enough to consent to their use and manages digital assets themselves

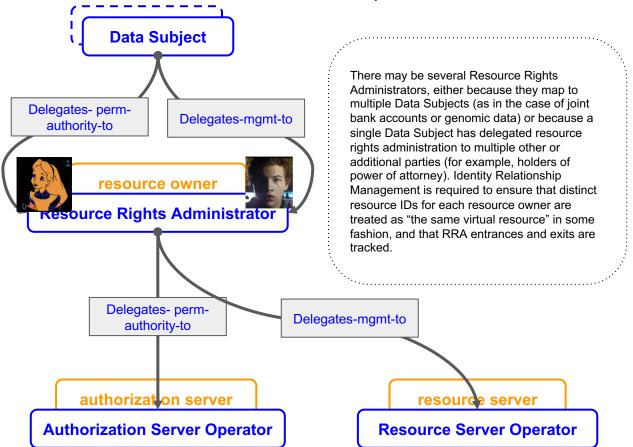




3a. Steady state: Data Subject manages their own digital assets

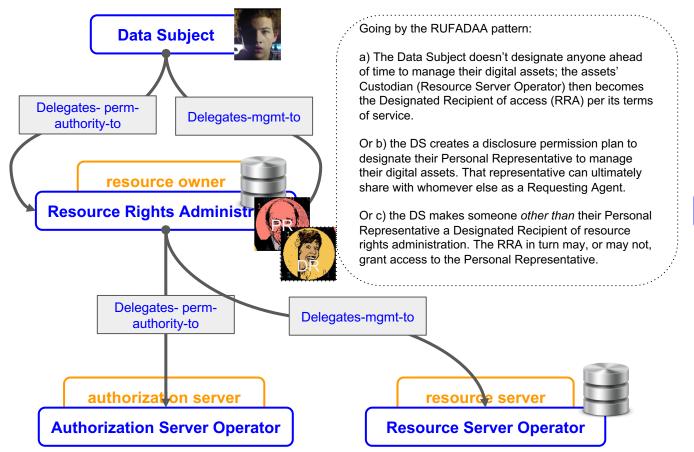


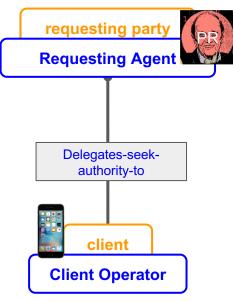
4. There are multiple administrators of resource rights



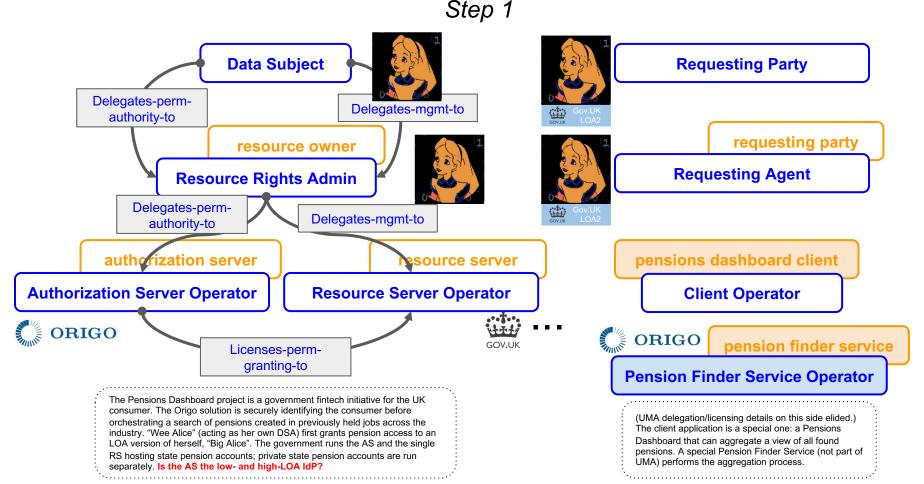


5. Data Subject becomes mentally incapacitated or dies

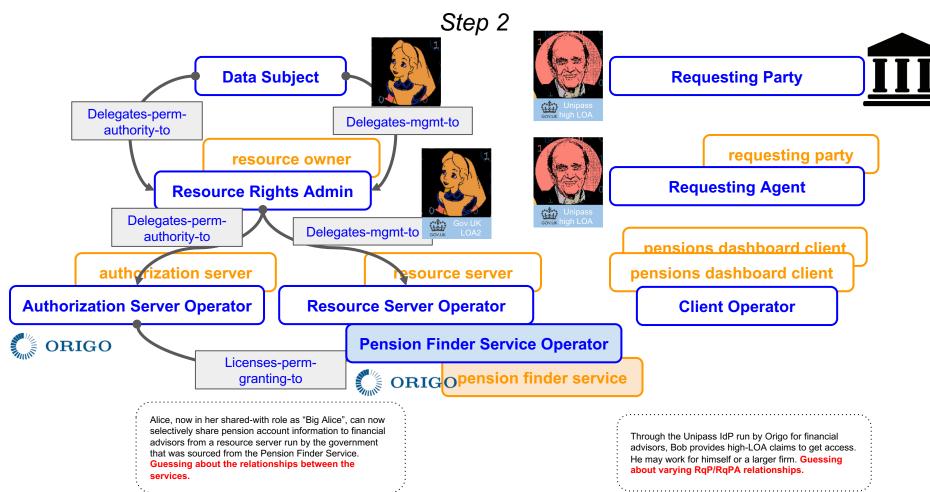




Scenario: UK Pensions Dashboard



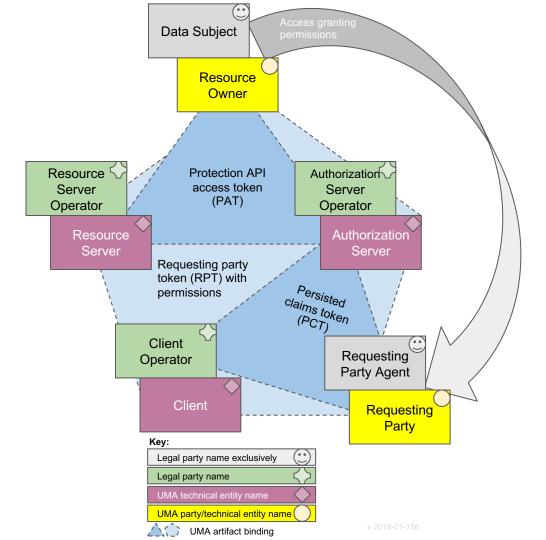
Scenario: UK Pensions Dashboard

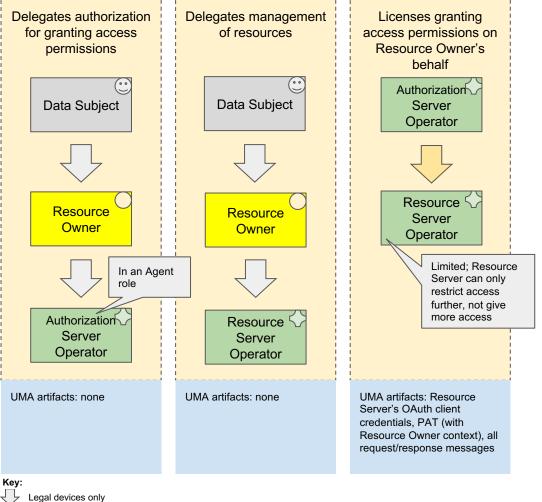


Diagrams used in report

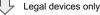
(now a bit historical)

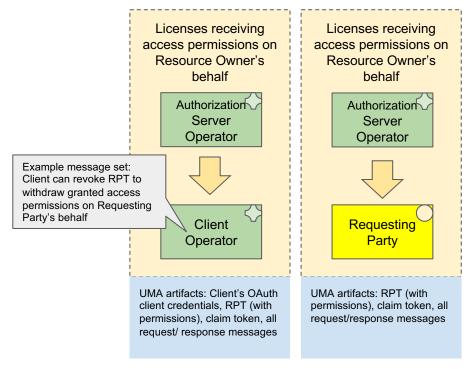
Legal roles and artifact interactions





Delegation and licensing: **RO-centered**

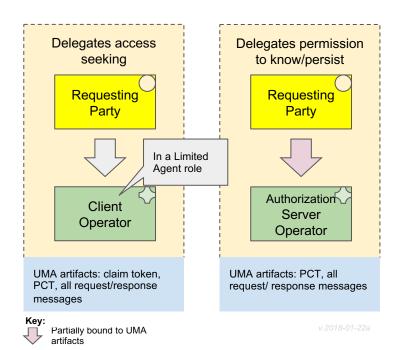




Delegation and licensing: receiving permissions

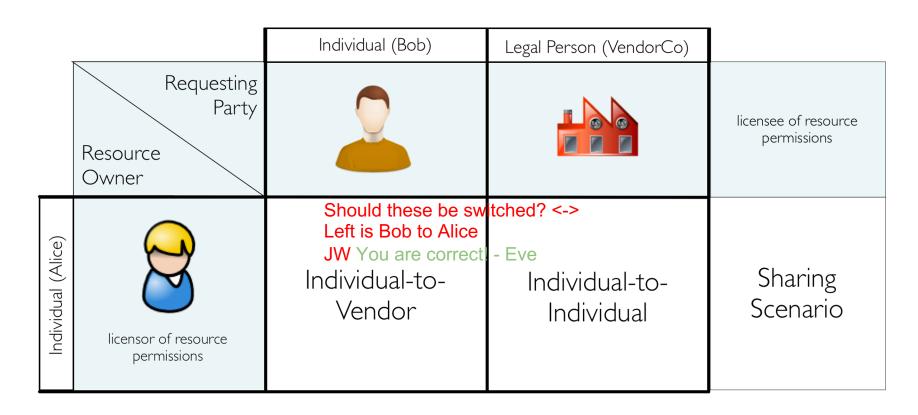
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Delegation and licensing: RqP-centered



Earlier group musings

End-to-end licensing relationship



Sub-licensing intermediaries

			Individual (self - Alice)	Individual (other - Bob)	Legal Person (VendorCo)	
	Requesting Party Options		8			licensee
	Resource		TOS	TOS	TOS	
	Owner		Client Operator	Client Operator	Client Operator	
idual	₹ To	ŌS	Resource Server Operator			sub-licensor
Individual	To	ŌS	Authorization Server Operator			
			Individual-to-Self Sharing	Individual-to- Individual Sharing	Individual-to Vendor Sharing	Sharing Scenario

End-to-end licensing relationship (new candidate 2)

		Requesting Party			
		Individual (Self)	Individual (other)	Legal Person	
	Resource Owner (Individual)	Individual-to- Self Sharing	Individual-to- Individual Sharing	Individual-to- Vendor Sharing	Scenarios
Client Operator		тоѕ	TOS		
Resource Server Operator	Tos	LIC			Sub-Licensor
Authorization Server Operator	Tos		LIC P		

End-to-end licensing relationship sharing scenarios

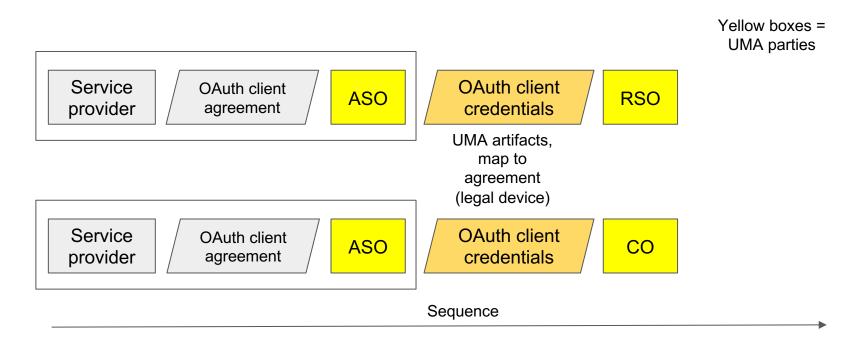
		Requesting Party			
		Individual (Self)	Individual (other)	Legal Person	
	Resource Owner (Individual)	Individual-to- Self Sharing	Individual-to- Individual Sharing	Individual-to- Vendor Sharing	Scenarios
Client Operator		TOS	TOS		
Resource Server Operator	Tos	LIC	LIC P	LIC	Sub-Licensor
Authorization Server Operator	Tos	LIC	LIC	LIC	

Not sure if this can be incorporated visually, but the arrow of autonomy might be nice. That is to say, who WRITES the TOS or LIC

If written by RO or rep, autonomy favouring. If by other entity, less so.

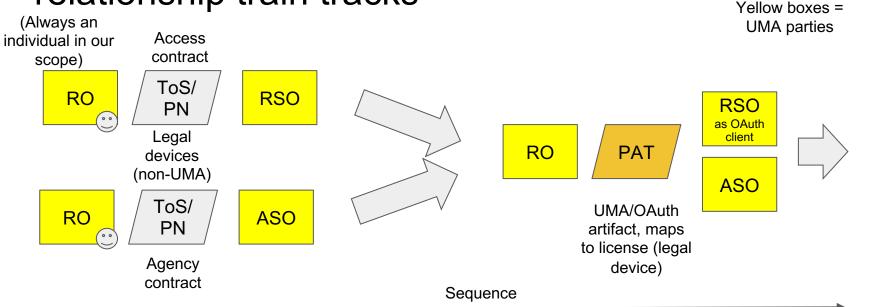
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How RSO and CO become known to ASO



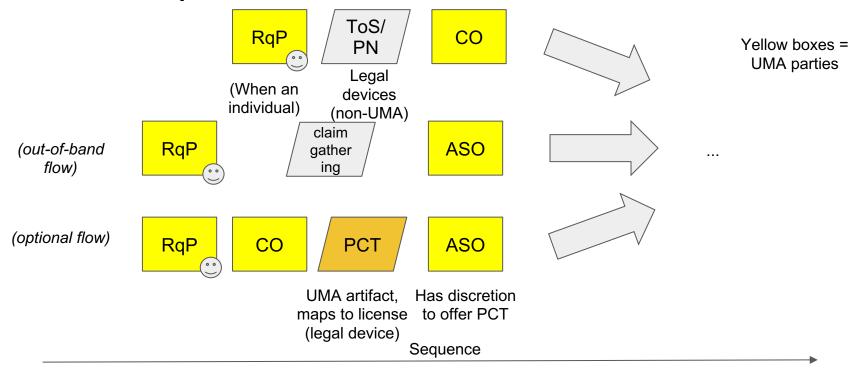
- Clause text would be supplied for both ToS/PN (non-UMA) and PAT artifacts
- This diagram does not include the RqP-side provisions
- Arrows imply ability for clause text to have the indicated order dependencies

Merging RO-RSO, RO-ASO, and RO-RSO-ASO relationship train tracks



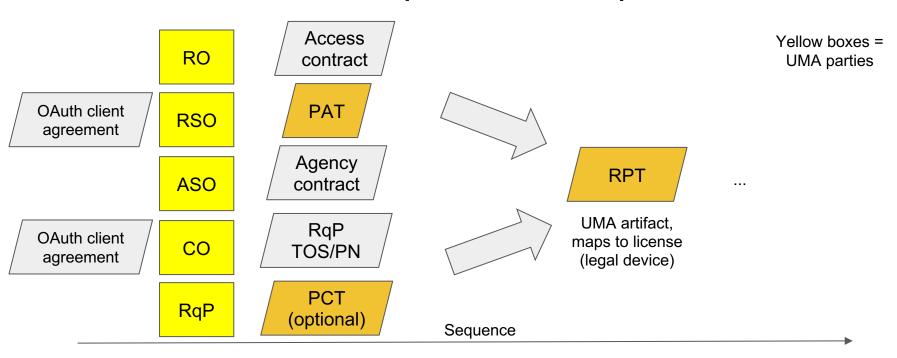
- Clause text would be supplied for both ToS/PN (non-UMA) and PAT artifacts
- This diagram does not include the RqP-side provisions
- Arrows imply ability for clause text to have the indicated order dependencies

Merging RqP-CO, RqP-ASO, and RqP-CO-ASO relationship train tracks



- Clause text would be supplied for ToS/PN (non-UMA) artifacts????? Not sure right now
- This diagram does not include the RO-side provisions
- Arrows imply ability for clause text to have the indicated order dependencies

RO-RSO-ASO-CO-RqP relationship



Arrows imply ability for clause text to have the indicated order dependencies

(Fill in withdrawal/undoing flows)

Example of relationship, legal device, and technical artifact

Legend:

- Red: Pairwise relationship role with greater power
- Green Pairwise relationship role with lesser power
- Blue: Legal device used between them
- Orange: Technical artifact on the UMA wire



The ASO and the RSO have a business contract wherein the ASO, as sub-licensor of resource permissions on behalf of the RO, sub-licenses to the RSO and enables the RSO to sub-license to COs and RqPs by virtue of giving access/giving content.

RqP vs RqPA relationship



Sharing Scenario B: RqPA was shared with directly by the RO; they are human (Individual). They work for an organization (Legal Person) with which they have an employment agreement (or similar) that is outside the scope of any UMA technical artifacts. Others in the organization might get access by non-UMA methods in downstream fashion, as must be governed by the UMA-enabled license.

RqP (what to call? anything?)

Sharing Scenario B: RqP was shared with directly by the RO; they are an organization (Legal Person). They have humans (Individuals) working for them, with an employment agreement (or similar) that is outside the scope of any UMA technical artifacts, who gets access through non-UMA methods in downstream fashion as governed by the UMA-enabled license.

Technology/legal stack relationships

Consent Receipts? HL7 Consents? id-events? PSD2 Consents?

UMA legal framework	Framework extension?		
UMA protocol	Some consent tech		