

Contribution for ESI#87

16th of September 2025

Specification of interfaces related to Authentic Sources – State of Play

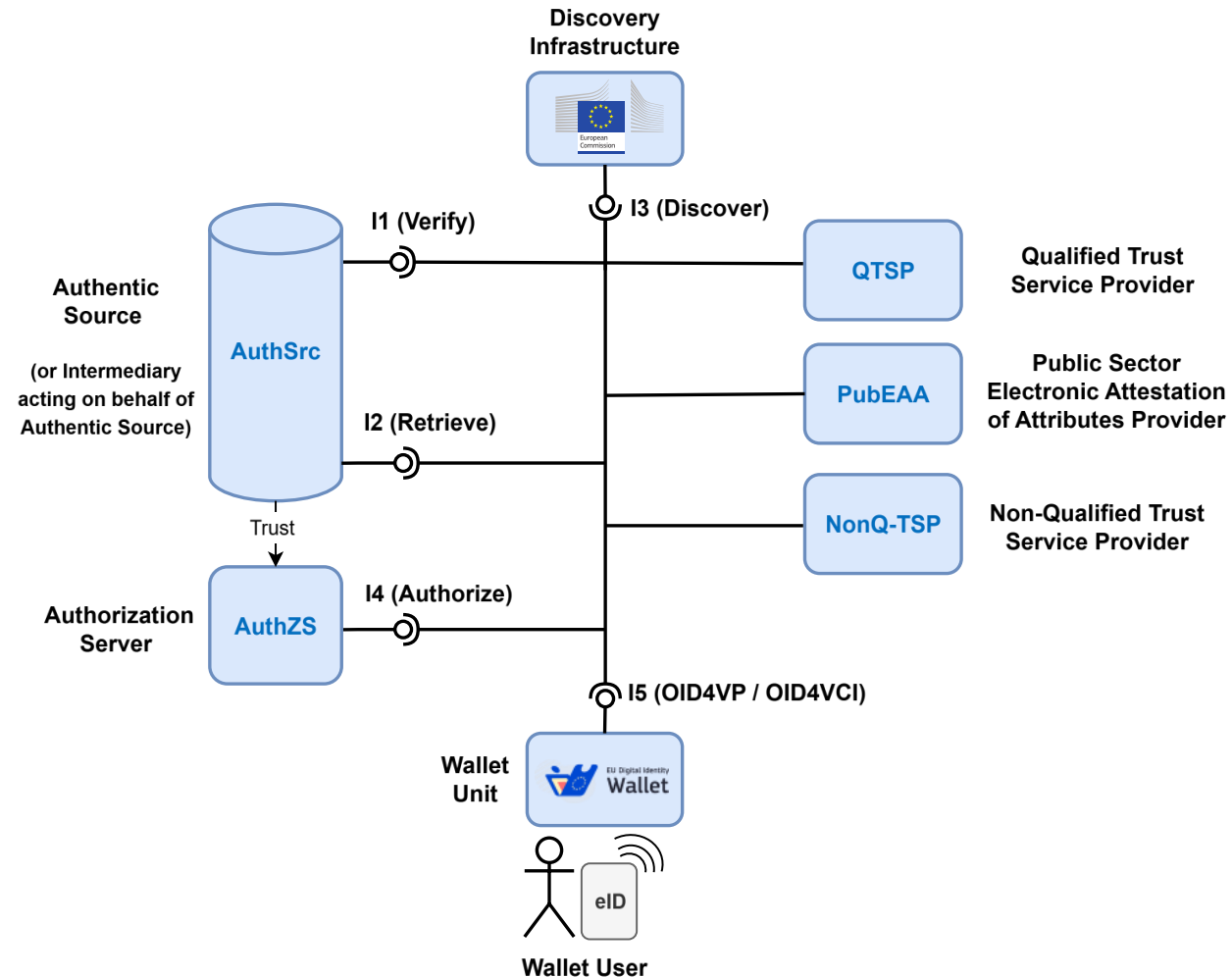
Dr. Detlef Hühnlein

- | | |
|---|---------------------|
| ▪ Analysis of Regulatory Background | Status: Done |
| ▪ Agreement on scope and finalisation of NWI | Status: Done |
| ▪ First Draft v0.0.1 for Discussion within ETSI ESI | Status: Done |
| ▪ Clarification of Open Issues with European Commission | Status: Ongoing |
| ▪ Update of Draft | Status: Done |
| ▪ Alignment with Stakeholders in EU Member States | Status: Ongoing |
| ▪ Finalisation and Publication of ETSI TS 119 478 | Status: Future work |

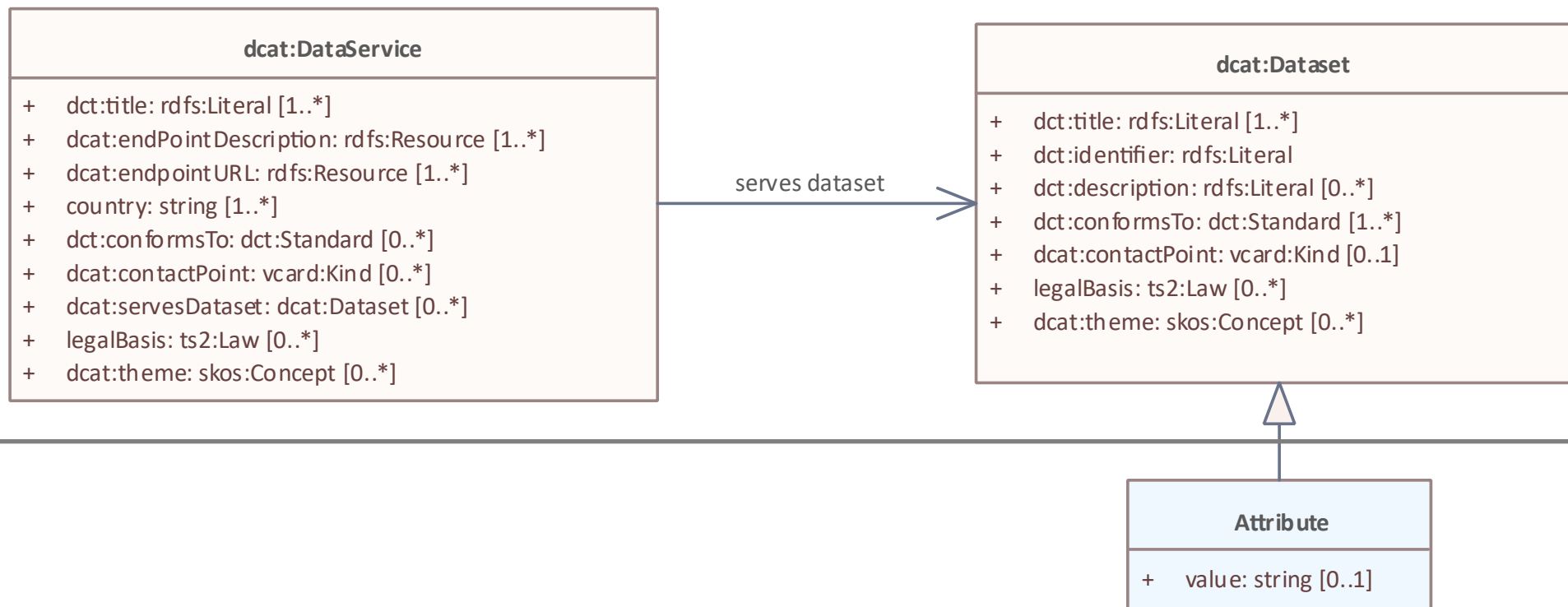
Article 45e of the eIDAS-regulation (EU) No. 910/2014 obliges the EU Member States to ensure until the end of 2026, that qualified trust service providers are able to verify at least the attributes listed Annex VI of the regulation at the request of the user. The new work item aims at specifying the interface for this purpose. Furthermore, the new work item also aims at specifying a second interface, which allows to retrieve additional attributes of the user upon request, if supported by the authentic source. The present new work item aims at specifying the necessary technical framework for the required access of the involved Authentic Sources, which includes architectures, components, interfaces, protocols, data structures and related security considerations.

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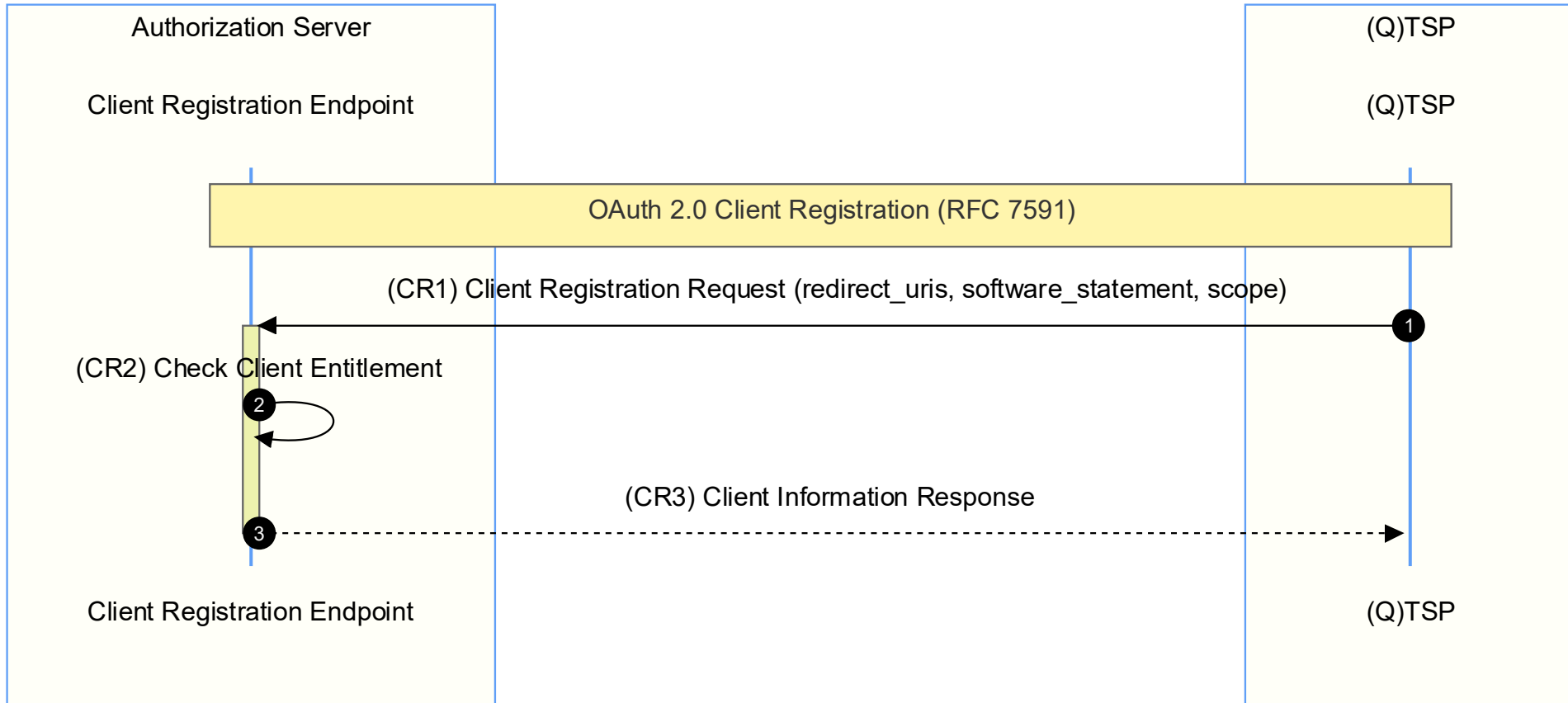
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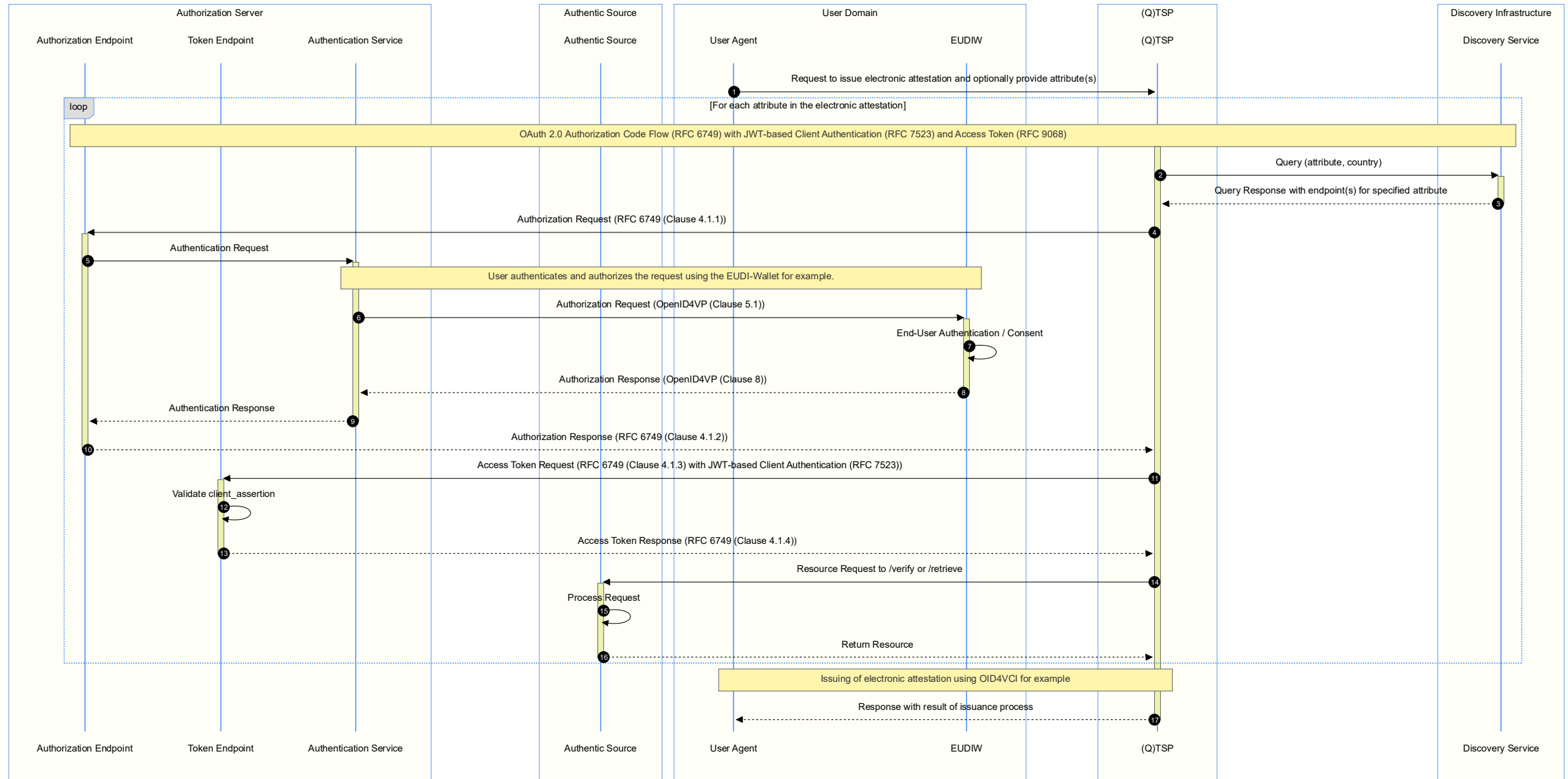


Part of the Catalogue of Attributes according to Article 7 of CIR (EU) 2025/1569



See also <https://www.w3.org/TR/vocab-dcat-3/> and <https://semiceu.github.io/DCAT-AP/releases/3.0.0/>





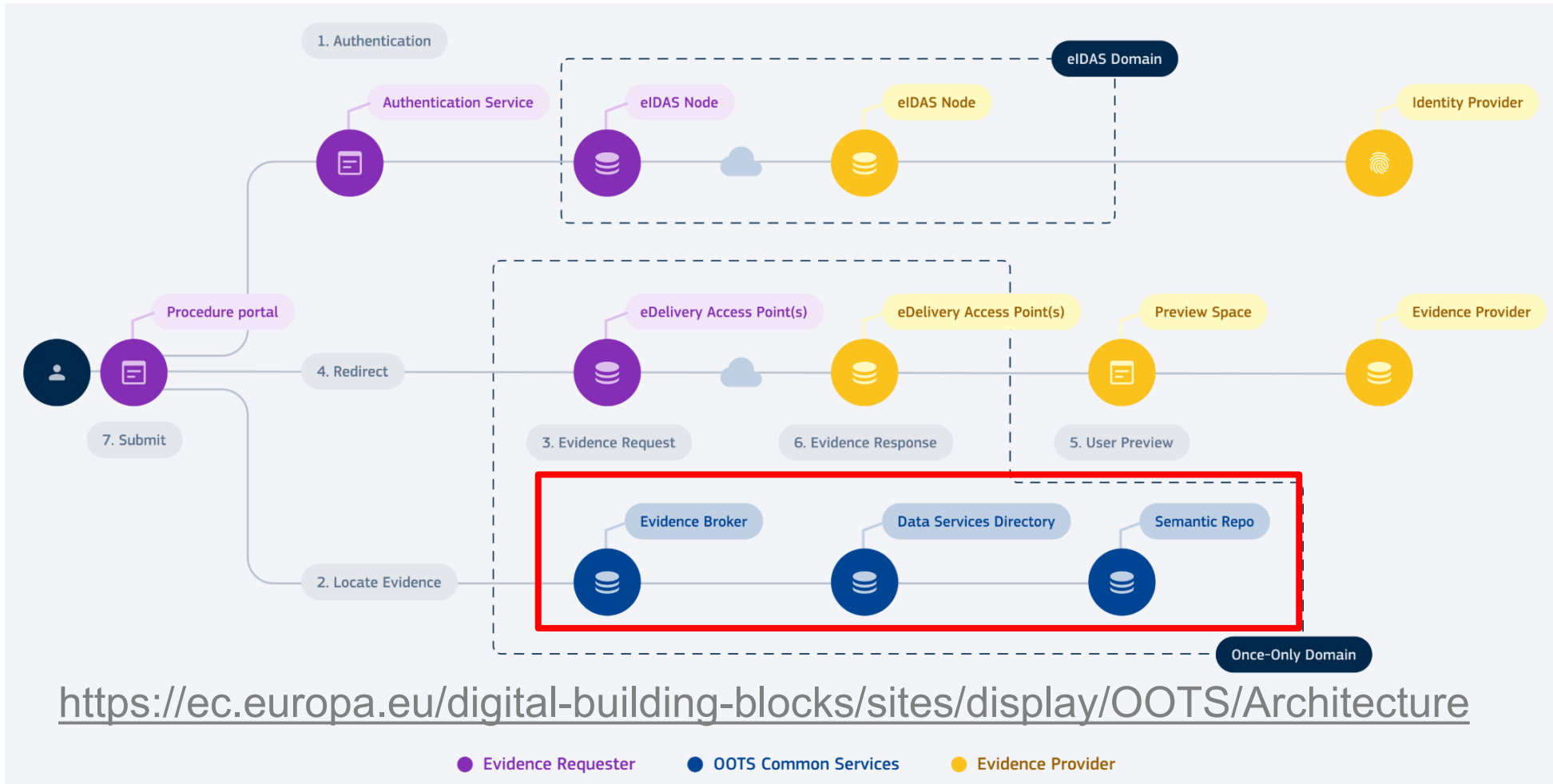
Article 9

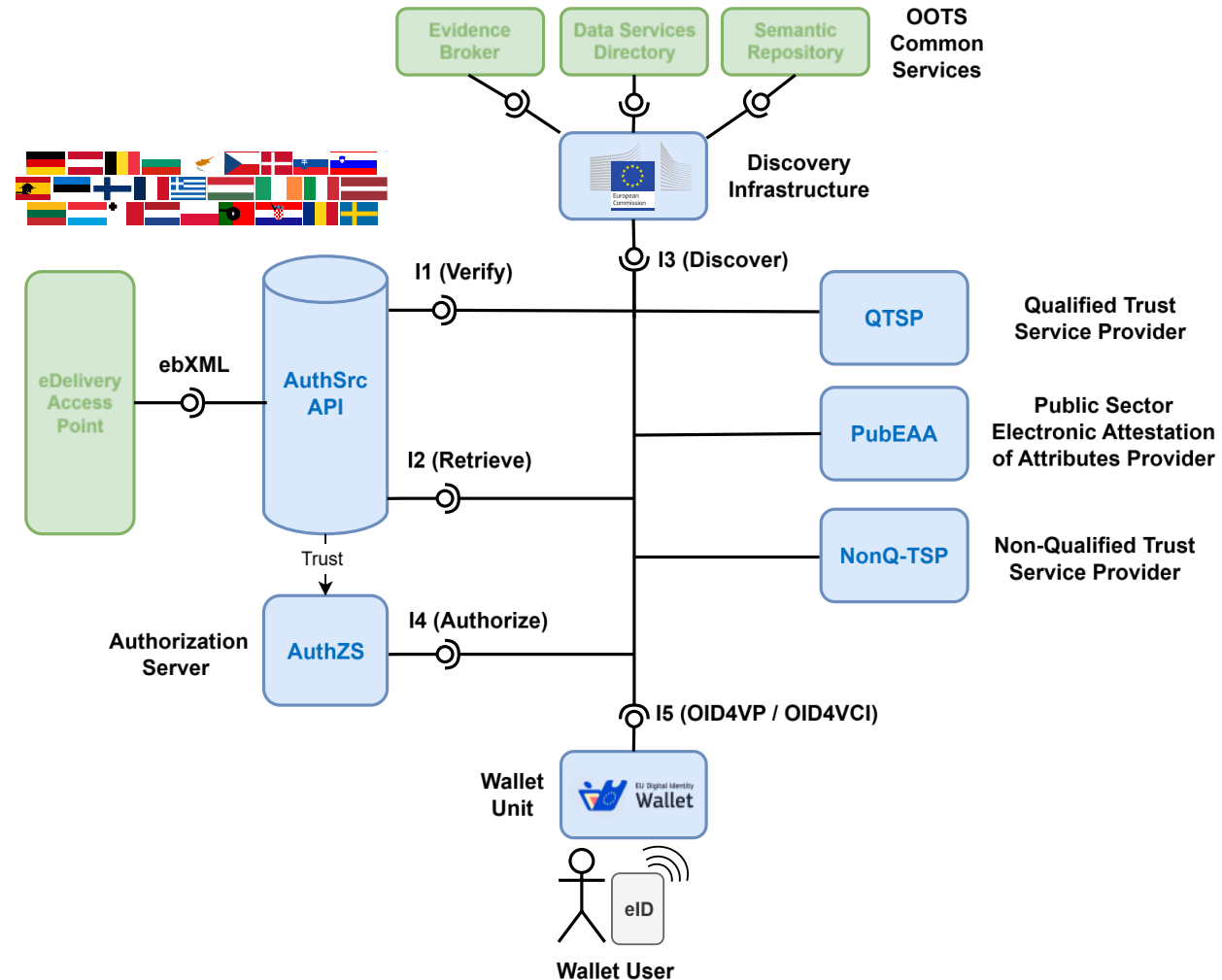
Verification of attributes against authentic sources or designated intermediaries

1. To enable the electronic verification of the attributes referred to in Article 45e(1) of Regulation (EU) No 910/2014 by qualified trust service providers issuing qualified electronic attestations of attributes, at the request of the user, Member States shall establish mechanisms that allow that verification and may make available single points of verification for the attributes listed in Annex VI of that Regulation wherever those attributes rely on authentic sources within the public sector. Member States shall publish information on the procedures for initiating the verification requests and for receiving the verification results.
2. The verification mechanism shall provide an access point where qualified trust service providers issuing qualified electronic attestations of attributes can electronically request the verification against authentic sources or designated intermediaries recognised at national level, of the attributes referred to in Article 45e(1) of Regulation (EU) No 910/2014. Attributes subject to verification will be provided to the verification point by the qualified trust service provider at the user request. The public sector body or designated intermediary shall share, through the verification point, the verification results with the qualified trust service providers issuing qualified electronic attestations of attributes.
3. The verification request shall set out the attributes and the identification data of the subject of the attribute for which the qualified trust service provider requests the verification.
4. The verification result shall state exclusively whether the attribute has been verified or not and specify the public sector body responsible for the authentic source or, where applicable, the public sector body designated to act on behalf of the authentic source against which the attribute has been verified.
5. Member States may impose access controls or other verification mechanisms that provide integrity, authenticity, and confidentiality to determine that the requester is a qualified trust service provider and is acting at the request of a legitimate user. Member States may also impose control mechanisms on the use of the verification methods, where they deem this appropriate, taking into account relevant factors, including whether the authentic sources contain personal confidential or sensitive data. Where Member States establish these control mechanisms, they shall publish information on the extent of the control mechanisms as part of the information referred to in paragraph 1.

Interoperability and reuse

1. For the purpose of Articles 3 to 9, Member States may refer to and re-use the **common services** of the technical system set out in Article 14 of Regulation (EU) 2018/1724, as well as the national components connected to them.
2. When establishing the secure notification system and the list of public sector bodies referred to in Articles 5 and 6 and the catalogues referred to in Articles 7 and 8 of this Regulation, the European Commission shall refer to and re-use, where appropriate, the **common services** of the technical system pursuant to Regulation (EU) 2018/1724.





```
<?xml version="1.0" encoding="UTF-8"?>
<query:QueryRequest xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:4.0" xmlns:sdg="http://data.europa.eu/p4s"
  xmlns:xmime="http://www.w3.org/2005/05/xmlmime"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:4.0"
  xmlns:query="urn:oasis:names:tc:ebxml-regrep:xsd:query:4.0"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:pid="http://uri.etsi.org/19478/v1#"
  id="urn:uuid:361e43b5-bd1b-4eb5-9b1f-93971ce2e811">
  <rim:Slot name="SpecificationIdentifier">
    <rim:SlotValue xsi:type="rim:StringValueType">
      <rim:Value>http://uri.etsi.org/19478/v1#</rim:Value>
    </rim:SlotValue>
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  </rim:Slot>
  <rim:Slot name="VerificationRequester">
    <rim:SlotValue xsi:type="pid:LegalPersonValueType">
      <pid:LegalPerson>
        <pid:current_legal_name>QTSP.com</pid:current_legal_name>
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  </rim:Slot>
  <rim:Slot name="VerificationProvider">
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      <pid:LegalPerson>
        <pid:current_legal_name>Verifier.eu</pid:current_legal_name>
        <pid:unique_identifier>456</pid:unique_identifier>
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  <rim:Slot name="ExplicitRequestGiven">
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</query:QueryRequest>
<query:ResponseOption returnType="LeafClassWithRepositoryItem"/>
<query:Query queryDefinition="VerificationQuery">
  <rim:Slot name="Person">
    <rim:SlotValue xsi:type="pid:NaturalPersonValueType">
      <pid:NaturalPerson>
        <pid:family_name>Hermoso</pid:family_name>
        <pid:given_name>Emma</pid:given_name>
        <pid:birth_date>1998-03-01</pid:birth_date>
        <pid:birth_place>Madrid, Spain</pid:birth_place>
        <pid:nationality>ES</pid:nationality>
      </pid:NaturalPerson>
    </rim:SlotValue>
  </rim:Slot>
```

ebXML

```
<rim:Slot name="AttestationSchemeClassification">
  <rim:SlotValue xsi:type="rim:StringValueType">
    <rim:Value>https://sr.dev.oosts.tech.ec.europa.eu/schemas/edc/</rim:Value>
  </rim:SlotValue>
</rim:Slot>
<rim:Slot name="RequiredAttributes">
  <rim:SlotValue xsi:type="rim:MapValueType">
    <rim:Map>
      <rim:Entry>
        <rim:EntryKey xsi:type="rim:StringValueType">
          <rim:Value>hasClaim.awardedBy.awardingBody.legalName</rim:Value>
        </rim:EntryKey>
        <rim:EntryValue xsi:type="rim:InternationalStringValueType">
          <rim:Value>
            <rim:LocalizedString xml:lang="ES"
              value="Universidad Pontificia Comillas (Universidad de la Iglesia Católica)"
            </rim:LocalizedString>
          </rim:Value>
        </rim:EntryValue>
      </rim:Entry>
      <rim:Entry>
        <rim:EntryKey xsi:type="rim:StringValueType">
          <rim:Value>hasClaim.title</rim:Value>
        </rim:EntryKey>
        <rim:EntryValue xsi:type="rim:InternationalStringValueType">
          <rim:Value>
            <rim:LocalizedString xml:lang="ES"
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            </rim:LocalizedString>
          </rim:Value>
        </rim:EntryValue>
      </rim:Entry>
    </rim:Map>
  </rim:SlotValue>
</rim:Slot>
</query:Query>
</query:QueryRequest>
```

```
{
  "title": "Address",
  "identifier": "http://data.europa.eu/eudi/coa/address",
  "conformsTo": "http://data.europa.eu/eudi/coa/address.json",
  "value": {
    "street": "Godesberger Allee",
    "house_number": "185-189",
    "city": "Bonn",
    "postal_code": "53175",
    "country": "DE"
  }
}
```

JSON

Thank you very much for your kind
attention!

Are there any open questions?

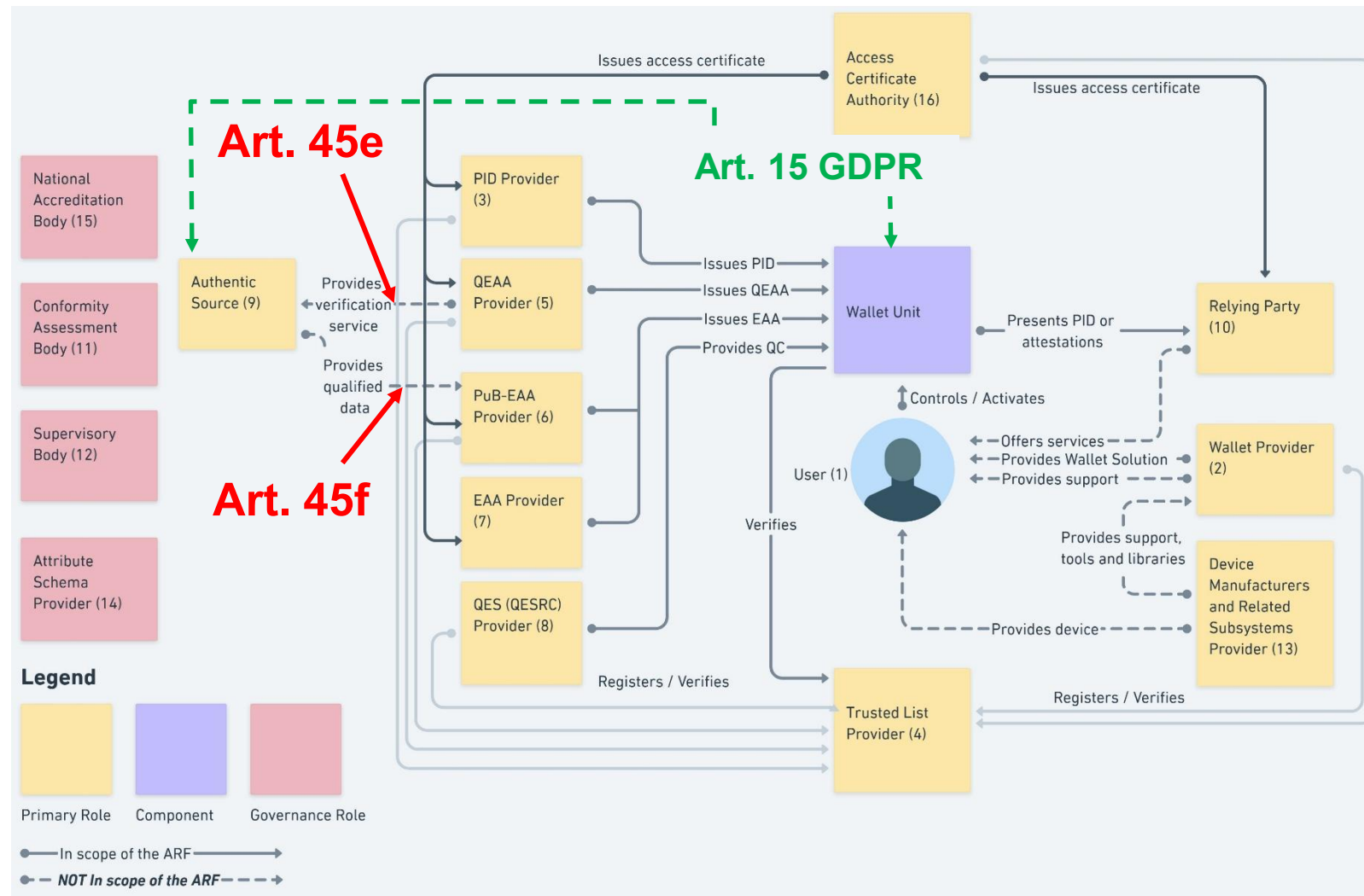
Contact

The logo for ecsec, featuring a green 'e' inside a grey circle, followed by the text 'ecsec' in a bold, sans-serif font.

...being secure made easy

ecsec GmbH
Sudetenstr. 16
96247 Michelau, Germany
phone + 49 9571 948 1020
mob. + 49 171 9754980
detlef.huehnlein@ecsec.de
<https://www.ecsec.de>

Dipl.-Inform. (FH)
Dr. Detlef Hühnlein
CEO



(1) Member States shall ensure, within 24 months of the date of entry into force of the implementing acts referred to in Articles 5a(23) and 5c(6), that, at least for the attributes listed in Annex VI, wherever those attributes rely on authentic sources within the public sector, measures are taken to allow qualified trust service providers of electronic attestations of attributes to verify those attributes by electronic means at the request of the user, in accordance with Union or national law.

(2) By 21.11.2024, the Commission shall, taking into account relevant international standards, by means of implementing acts, establish a list of reference standards and, where necessary, establish specifications and procedures for the catalogue of attributes, as well as schemes for the attestation of attributes and verification procedures for qualified electronic attestations of attributes for the purposes of paragraph 1 of this Article. Those implementing acts shall be consistent with the implementing acts referred to in Article 5a(23) on the implementation of the European Digital Identity Wallet. They shall be adopted in accordance with the examination procedure referred to in Article 48(2).

Pursuant to Article 45e, Member States shall ensure that measures are taken to allow qualified trust service providers of electronic attestations of attributes to verify by electronic means at the request of the user, the authenticity of the following attributes against the relevant authentic source at national level or via designated intermediaries recognised at national level, in accordance with Union or national law and where these attributes rely on authentic sources within the public sector:

- (1) Address;
- (2) Age;
- (3) Gender;
- (4) Civil status;
- (5) Family composition;
- (6) Nationality or citizenship;
- (7) Educational qualifications, titles and licences;
- (8) Professional qualifications, titles and licences;
- (9) Powers and mandates to represent natural or legal persons;
- (10) Public permits and licences;
- (11) For legal persons, financial and company data;

ANNEX II

Procedures referred to in Article 6(1)

Life events	Procedures	Expected output subject to an assessment of the application by the competent authority in accordance with national law, where relevant
Birth	Requesting proof of registration of birth	Proof of registration of birth or birth certificate
Residence	Requesting proof of residence	Confirmation of registration at the current address
Studying	Applying for a tertiary education study financing, such as study grants and loans from a public body or institution	Decision on the application for financing or acknowledgement of receipt
	Submitting an initial application for admission to public tertiary education institution	Confirmation of the receipt of application
	Requesting academic recognition of diplomas, certificates or other proof of studies or courses	Decision on the request for recognition
Working	Request for determination of applicable legislation in accordance with Title II of Regulation (EC) No 883/2004 ⁽¹⁾	Decision on applicable legislation
	Notifying changes in the personal or professional circumstances of the person receiving social security benefits, relevant for such benefits	Confirmation of receipt of notification of such changes
	Application for a European Health Insurance Card (EHIC)	European Health Insurance Card (EHIC)
	Submitting an income tax declaration	Confirmation of the receipt of the declaration
Moving	Registering a change of address	Confirmation of deregistration at the previous address and of the registration of the new address
	Registering a motor vehicle originating from or already registered in a Member State, in standard procedures ⁽²⁾	Proof of registration of a motor vehicle
	Obtaining stickers for the use of the national road infrastructure: time-based charges (vignette), distance-based charges (toll), issued by a public body or institution	Receipt of toll sticker or vignette or other proof of payment
	Obtaining emission stickers issued by a public body or institution	Receipt of emission sticker or other proof of payment
Retiring	Claiming pension and pre-retirement benefits from compulsory schemes	Confirmation of the receipt of the claim or decision regarding the claim for a pension or pre-retirement benefits
	Requesting information on the data related to pension from compulsory schemes	Statement of personal pension data
Starting, running and closing a business	Notification of business activity, permission for exercising a business activity, changes of business activity and the termination of a business activity not involving insolvency or liquidation procedures, excluding the initial registration of a business activity with the business register and excluding procedures concerning the constitution of or any subsequent filing by companies or firms within the meaning of the second paragraph of Article 54 TFEU	Confirmation of the receipt of notification or change, or of the request for permission for business activity
	Registration of an employer (a natural person) with compulsory pension and insurance schemes	Confirmation of registration or social security registration number
	Registration of employees with compulsory pension and insurance schemes	Confirmation of registration or social security registration number
	Submitting a corporate tax declaration	Confirmation of the receipt of the declaration
	Notification to the social security schemes of the end of contract with an employee, excluding procedures for the collective termination of employee contracts	Confirmation of the receipt of the notification
	Payment of social contributions for employees	Receipt or other form of confirmation of payment of social contributions for employees

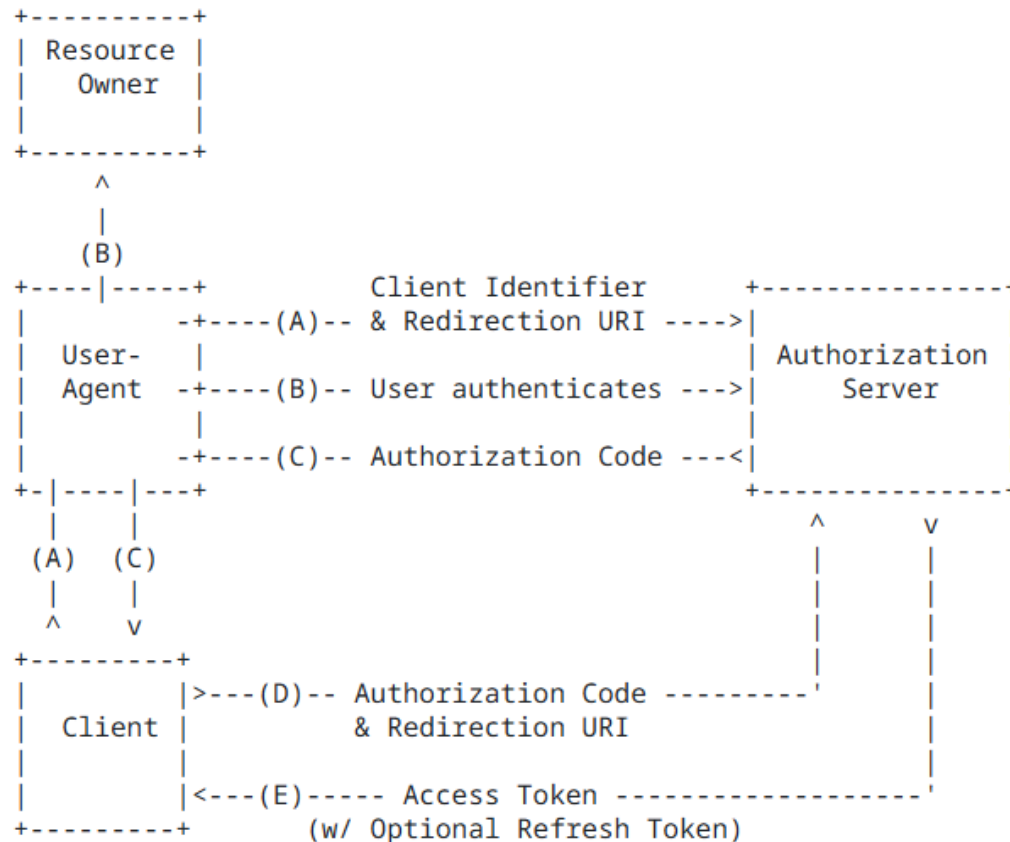
1. The data subject shall have the right to obtain from the controller confirmation as to whether or not personal data concerning him or her are being processed, and, where that is the case, access to the personal data and the following information:

- (a) the purposes of the processing;
- (b) the categories of personal data concerned;
- (c) the recipients or categories of recipient to whom the personal data have been or will be disclosed, in particular recipients in third countries or international organisations;
- (d) where possible, the envisaged period for which the personal data will be stored, or, if not possible, the criteria used to determine that period;
- (e) the existence of the right to request from the controller rectification or erasure of personal data or restriction of processing of personal data concerning the data subject or to object to such processing;
- (f) the right to lodge a complaint with a supervisory authority;
- (g) where the personal data are not collected from the data subject, any available information as to their source;
- (h) the existence of automated decision-making, including profiling, referred to in Article 22(1) and (4) and, at least in those cases, meaningful information about the logic involved, as well as the significance and the envisaged consequences of such processing for the data subject.

2. Where personal data are transferred to a third country or to an international organisation, the data subject shall have the right to be informed of the appropriate safeguards pursuant to Article 46 relating to the transfer.

3. The controller shall provide a copy of the personal data undergoing processing. For any further copies requested by the data subject, the controller may charge a reasonable fee based on administrative costs. Where the data subject makes the request **by electronic means**, and unless otherwise requested by the data subject, **the information shall be provided in a commonly used electronic form.**

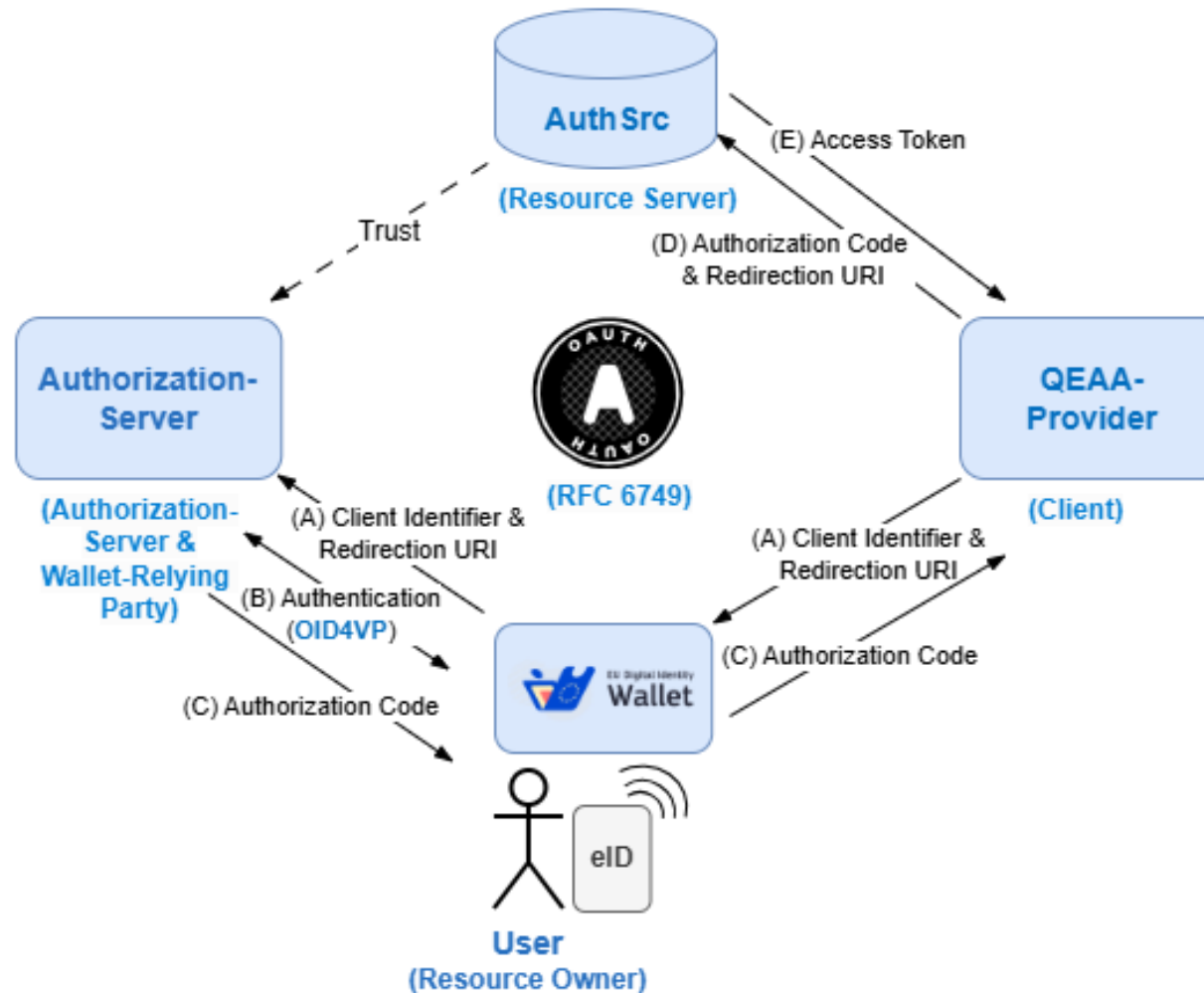
4. The right to obtain a copy referred to in paragraph 3 shall not adversely affect the rights and freedoms of others.



<https://datatracker.ietf.org/doc/html/rfc6749>

Note: The lines illustrating steps (A), (B), and (C) are broken into two parts as they pass through the user-agent.

Figure 3: Authorization Code Flow



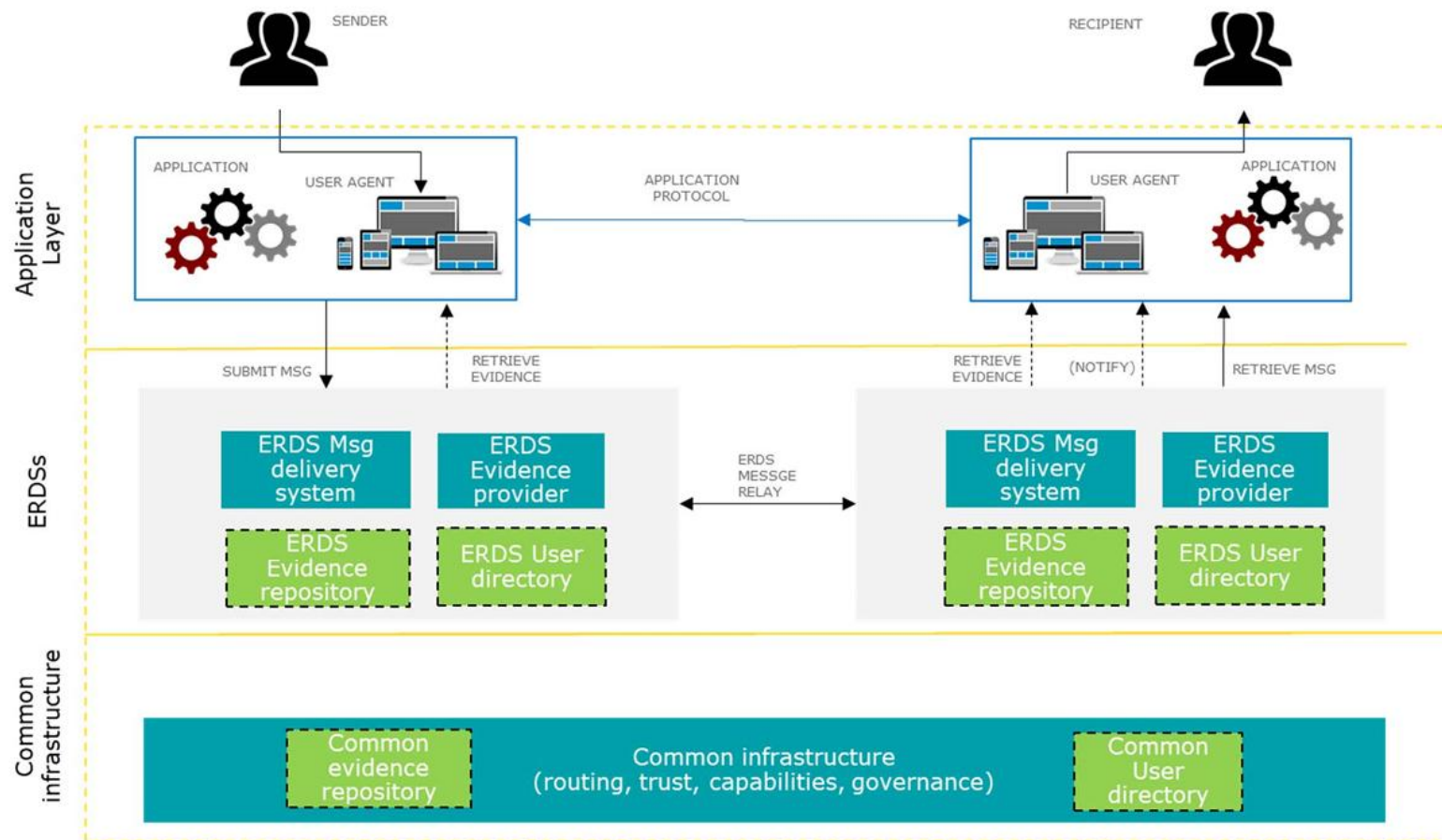


Figure 3: 4-Corner electronic registered delivery service model