#4 OOTS Implementers' Café

An interactive session with part 1 looking the OOTS Common Services and part 2 looking at how to prepare for the first of the 2023 OOTS Projectathons.

21 February 2023, 09:30-12:00

European Commission

DG GROW
Directorate-General
for Internal Market, Industry,
Entrepreneurship and SMEs

DIGIT
Directorate-General
for Informatics

Agenda

09:30-09:40   **Welcome** *– Thomas Fillis*

09:40-10:00   **Presentation of the Once-Only Technical System Common Services – the UX perspective** *– Nils McGrath*

10:00-10:20   **Q&A**

10:20-11:00   **Data Service Directory and Evidence Broker** *–Jerry Dimitriou, Carmen-Ionela Rotuna*

11:00-11:15   **Q&A**

11:15-11:35   **OOTS Projectathon preparation** *– Maarten Daniels and Marie-Laure Watrinet*

11:35-11:55   **Q&A**

**11:55-12:00**   **Wrap-up** *– Thomas Fillis*

Instructions for this live webinar:

When in doubt, write in the chat – our team are there to help

This is an interactive session. There will be time for questions and answers throughout the session via the chat.

Klick "Connect audio" to hear the presenters and please mute your microphones when not speaking.

Please note this webinar will be recorded, but is not published publicly.
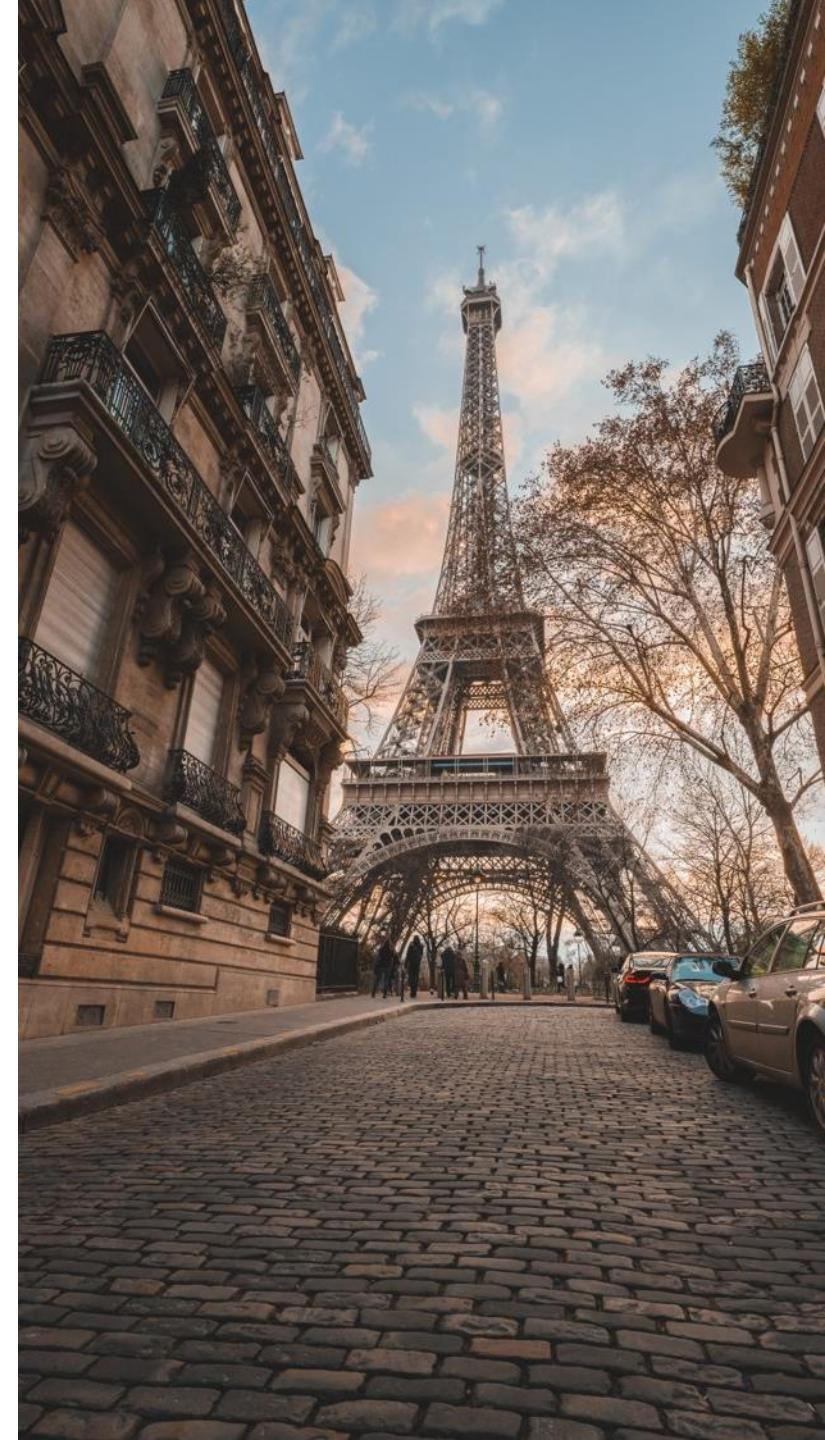
OOTS Common Services

User Experience

Nils McGrath

Imagine…

Bianca is **Italian**, she competed **secondary school in Italy**, she **moved to Belgium** where she completed a **bachelor degree and got married**. She is **disabled**. She wants to **apply for a study grant from Germany.**

To complete the procedure, the German portal asks Bianca, to provide:

– Secondary school diploma

– Bachelors degree

– Marriage certiciate

– Disability certificate

Evidence request service

A single national evidence request service enables the user to locate and request and collect all the evidence she needs from one platform

DE

Evidence #1

Request

IT

Re-authentication

National preview space of Italy

Procedure portal

Evidence request service

Evidence #2

Request

BE

Re-authentication

National preview space of Belgium

Evidence #3

Request

Skip re-authentication by applying cookies

Evidence #4

Error

Provider not found

European Commission
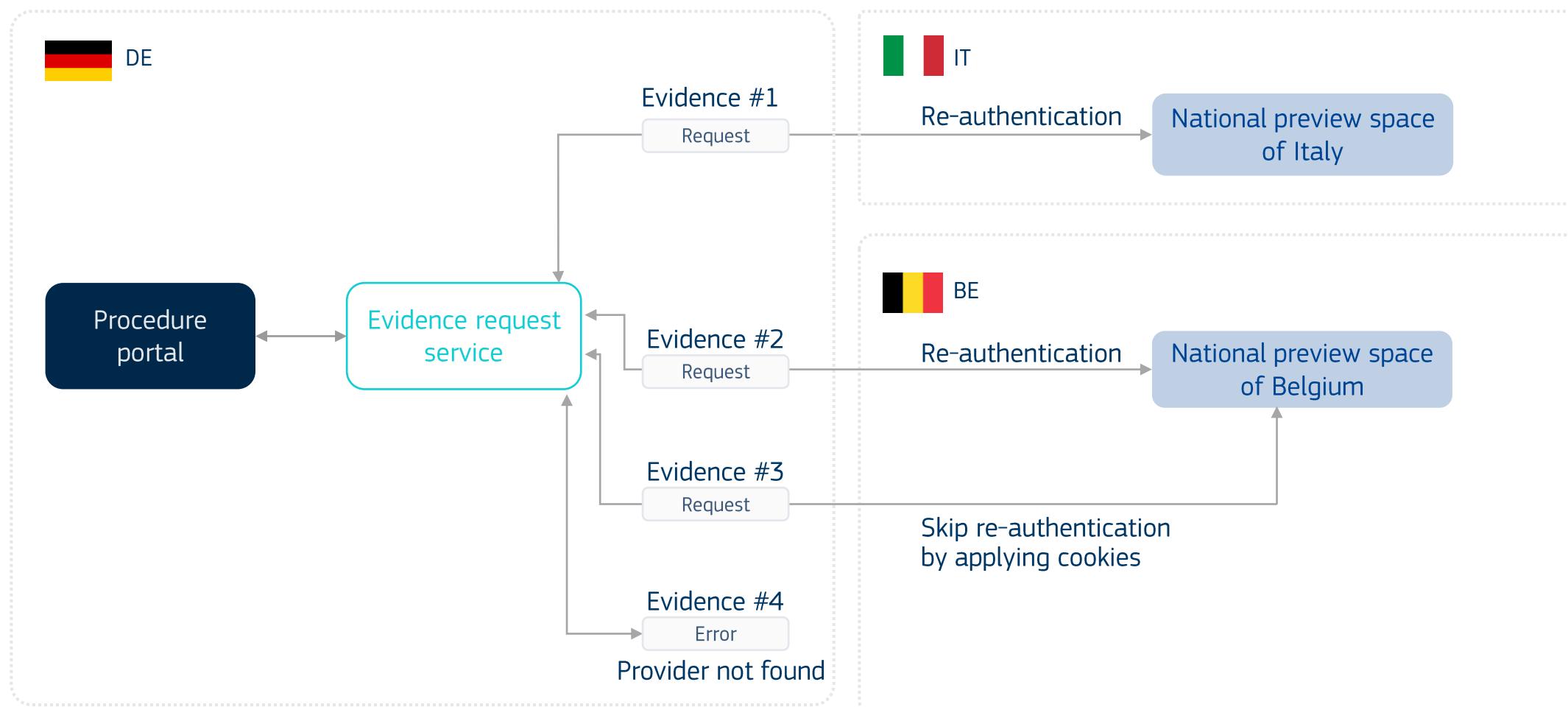
#2 Locate evidence

Location: **Procedure portal**

2. Bachelor's Degree Certificate

Provide the following documents in order to meet the entry requirements for the master's level.

Secondary education diploma
Marriage certificate
Tertiary education diploma
Disability certificate

Note: *All the documents must be uploaded in German or English.*

Select which documents you want to retrieve online

- ✔ Secondary education diploma
- ✔ Marriage certificate
- ✔ Bachelor's certificate
- ✔ Disability certificate

Secondary education diploma
Marriage certificate
Bachelor's certificate
Disability certificate

Get documents online

Note: *You will still have choice to upload your documents manually by removing it from the evidence requester portal*

or

Upload your documents manually   Drop the file here   Browse files

Cancel   Submit

DO

1. Tell users what languages the evidence needs to be provided in

2. Users must actively select the evidence they want to retrieve via OOTS, by default the check box should be unselected

3. Let users learn more about how to retrieve and share their documents online. This can be achieved by a link and modal.

#2 Locate evidence

Location: Evidence request platform

DO

1. Give users again the possibility to choose not to use OOTS and upload documents manually. Make this option available for each document

2. The language on the buttons should be clear for users which action they are about to do (e.g. "Upload manually" instead of "Cancel" or "Remove")

#3 Evidence request

Location: **Evidence request platform**

Retrieving documents online

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Secondary education diploma

Select the country where your certificate was issued

Select country ˅
Italy

Cancel   Locate evidence

Bachelor's Certificate   Locate evidence   Upload manually

Marriage Certificate   Locate evidence   Upload manually

Disability certificate   Locate evidence   Upload manually

Share your documents

DO

1. After they choose to retrieve it online, let users select the country where the evidence was issued

2. List the countries and regions in alphabetical order. Provide a search bar as part of the drop-down menu to facilitate search

3. Make the user press a button to go further and allow for mistakes in the selection of the dropdown items

4. Label the button with the action that the button will trigger (e.g. "Locate evidence", "find certificate provider")

#3 Evidence request

Location: Evidence request platform

Retrieving documents online

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Secondary education diploma

Documents available to request

☐ Diploma educazione secondaria

Provider: *Ministero dell'Istruzione, dell'Università e della Ricerca*

Cancel   Request

Bachelor's Certificate   Locate evidence   Upload manually

Marriage Certificate   Locate evidence   Upload manually

Disability certificate   Locate evidence   Upload manually

Share your documents

DO

1. Show users what the evidence is called in the evidence provider member state and show the name of the evidence provider in the original language

2. If re-authentication is required, inform the user.

#3 Evidence request

Location: Evidence request platform
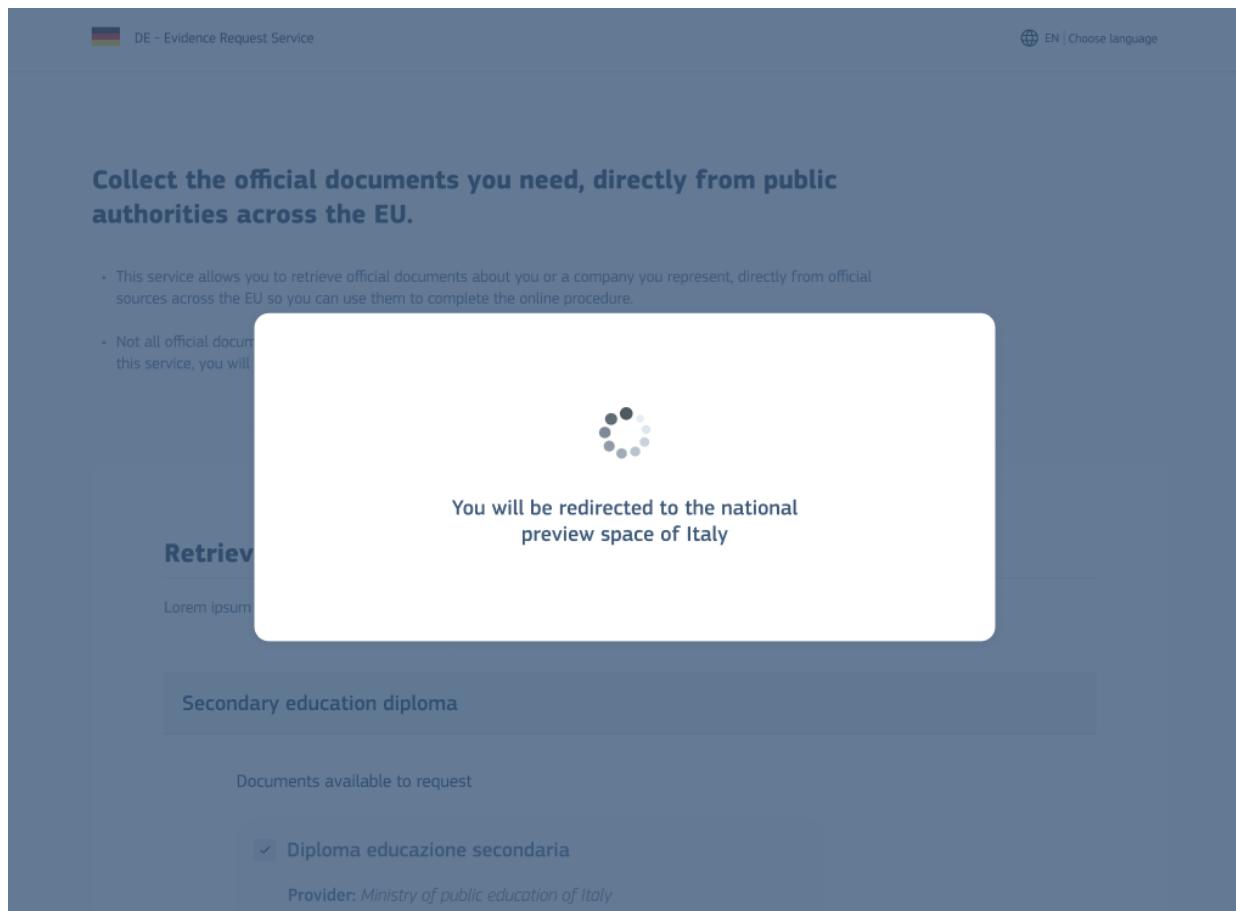
DO

1. Show a modal/pop-up to inform the user where they are about to go to

#3 Evidence request

Location: Preview space

Confirm the certificates you want to share

Requester: 🇩🇪 German Evidence Request Service

1. Select the certificate you want to share

☐ Diploma educazione secondaria
📄 Secondary education diploma.pdf
PDF, 77KB, 1 page

1. Select the language of your certificate

Select language ⌄

Cancel   Confirm

🇮🇹 National preview space of Italy

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis ultricies maximus dui, ut imperdiet nibh dictum sit amet. Donec at risus dolor. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos.

Lorem ipsum	Lorem ipsum	Lorem ipsum
Hyperlink	Hyperlink	Hyperlink
Hyperlink	Hyperlink	Hyperlink
Hyperlink	Hyperlink	Hyperlink

DO

1. Display who the requesting and issuing competent authorities are

2. Display the document type (file format, file size) of the evidence and the title of the evidence in the original language from the evidence provider MS

3. Use a checkbox to let users actively select the evidence they want to request

4. Make the "Confirm" button available after users have selected the evidence provider

5. Where applicable, allow the user to select what language they want to share their evidence in.

#3 Evidence request

Location: Preview space

DO

1. If possible, give users the possibility to download the document.

2. Preview on mobile: open the PDF in a separate tab as most browsers can support viewing PDF files.

#3 Evidence request

Location:

DO

1. Divide the list of evidences into two sections: one for OOTS (online retrieval) and the other for manual upload

2. Give users the possibility to freely choose which documents to retrieve online and which to upload manually. Add a button to recover documents from the manual upload list to the OOTS list (e.g. Add "Retrieve online instead" button)

#3 Evidence request

Location: Evidence request platform

DO

1. Allow users to preview the document again

2. Let users freely delete and recover the retrieved documents from the list

#3 Evidence request

Location: Evidence request platform

Retrieving documents online

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Secondary education diploma

📄 Secondary education diploma.pdf   ✕

Bachelor's Certificate

📄 BachelorsCertificate.pdf   ✕

Marriage Certificate

📄 MarriageCertificate.pdf   ✕

Disability certificate

ⓘ **Provider not found**

Online retrieval is not yet supported for [Certificate] in the selected country.

You will be able to upload the document manually on the procedure portal.
Learn more

[Continue]

DO

1. If an evidence is not supported on the OOTS, display the error message and explain that users will have to upload the evidence manually

#3 Evidence request

Location:

Retrieving documents online

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Secondary education diploma

📄 Secondary education diploma.pdf   ✕

Bachelor's Certificate

📄 BachelorsCertificate.pdf   ✕

Marriage Certificate

📄 MarriageCertificate.pdf   ✕

Share your documents

Documents to be uploaded manually

Manual uploading is required for these documents   ⓘ

• Disability certificate

#2 Locate evidence

Location: Procedure portal

Required documents   ⌃

📄 Secondary education diploma.pdf

📄 Bachelor's certificate.pdf

📄 Marriage certificate.pdf

To complete the procedure you need to upload the following documents

It appears that the document you were searching for could not be located. Please upload your document manually in order to complete your application.

Disability certificate   ⓘ   Browse files

Cancel   Submit

DO

1. Allow users preview the document again

2. It an evidence is not supported, explain why users have to upload the evidence manually

Q&A
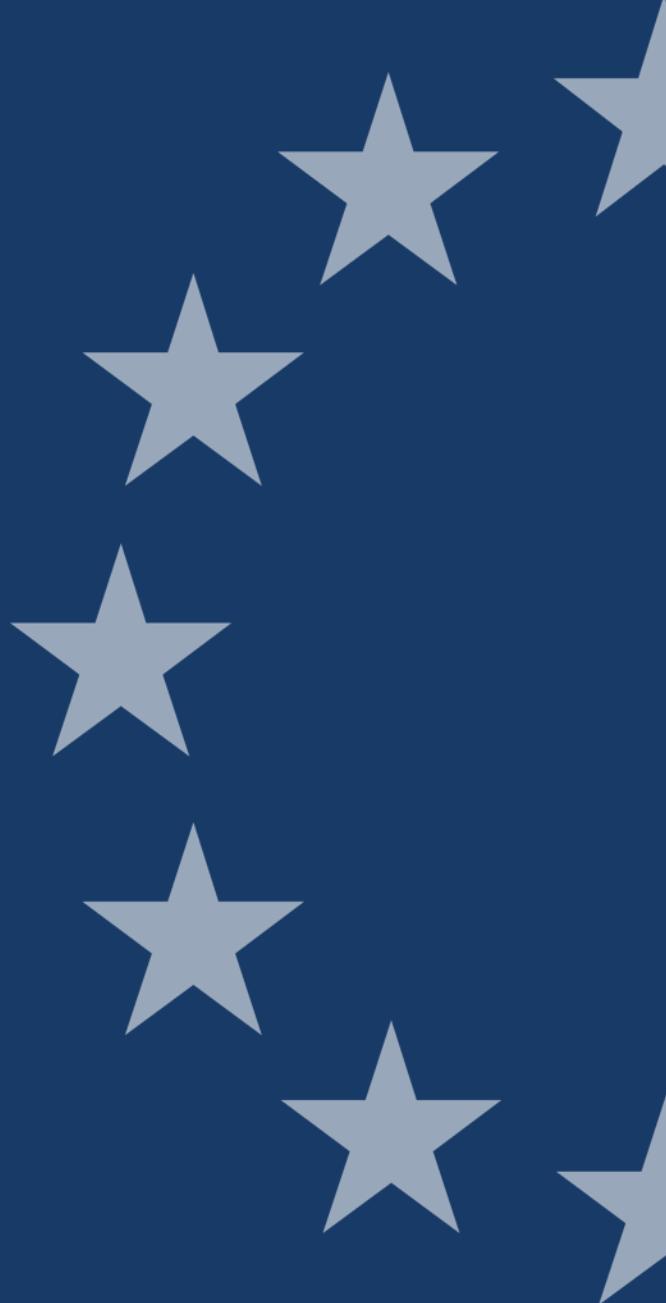
Data Service Directory and Evidence Broker

Jerry Dimitriou

Evidence Broker

Overview

- Publishes which **evidence types** Member States can provide to prove a particular **requirement** of a **procedure**;

- The Evidence Broker allows the Evidence Requester to look up the evidence types fulfilling requirements for a specific procedure to request from the Evidence Provider

- The functionality requires four main classes of Information:

  - The **Procedure** to which the requirements apply, based on the SDG Annex II list

  - The **Requirements** of procedures, commonly agreed notions that evidence types must fulfil.

  - The **Evidence Type**, providing the semantic information and description of the evidence types and the jurisdictions this evidence type cover

Evidence Broker

Defined Mapping Process

- 'Evidence' means any document or data, including text or sound, visual or audiovisual recording, irrespective of the medium used, required by a competent authority to prove facts or compliance with **procedural requirements** *(Article 3(5))*

Evidence Broker

Requirement Types

```
          ┌──────────────┐
          │  Procedural  │
          │ Requirement  │
          └──────┬───────┘
                 │
        ┌────────┴────────┐
        │                 │
┌───────────────┐   ┌───────────┐
│  Information   │   │ Criterion │
│  Requirement   │   │           │
└───────────────┘   └───────────┘
```
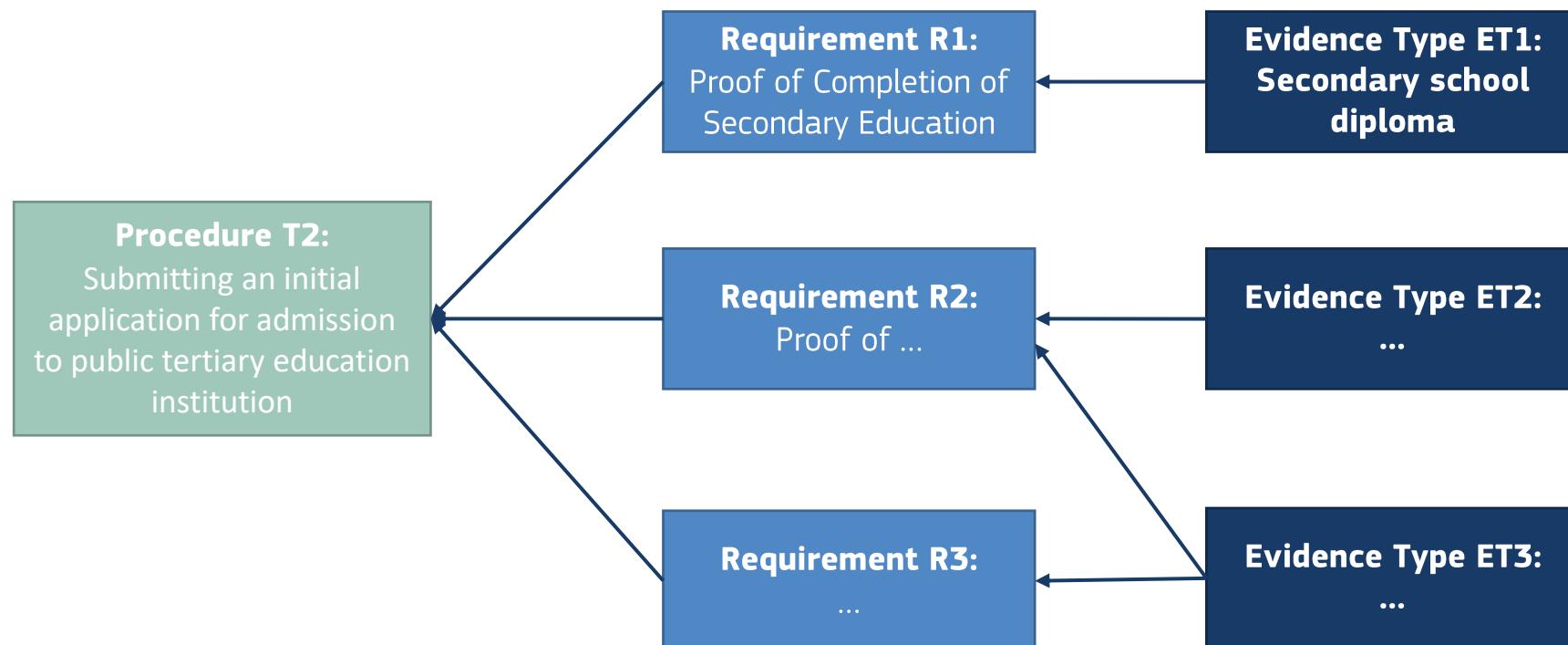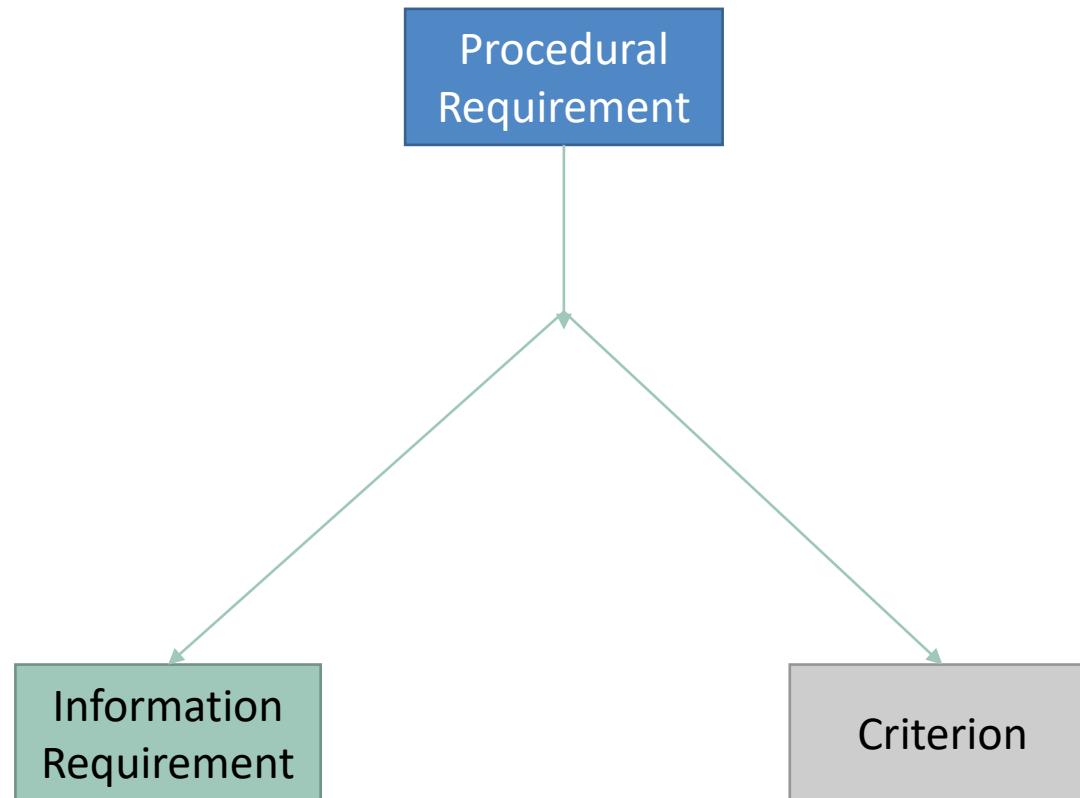
Information Requirement is to be seen as a **request for data** that proves one or more facts of the real world, or that leads to the source of such a proof.

Criterion is to be seen as a condition that will be evaluated (Yes/No Answer)

European Commission

Evidence Broker

Requirement Types and mapping to Evidence Types examples

Inf.Req:
Proof of Parenthood
Name, Surname, Parent Names

Criterion:
Proof of Adulthood

Subject Age > 18

Evidence Type ET1:
Household Composition

BE

Evidence Type ET2:
Birth Certificate

GR

Evidence Type ET3:
Attribute-Based Dataset
confirming that subject is
equal or above that age

AT
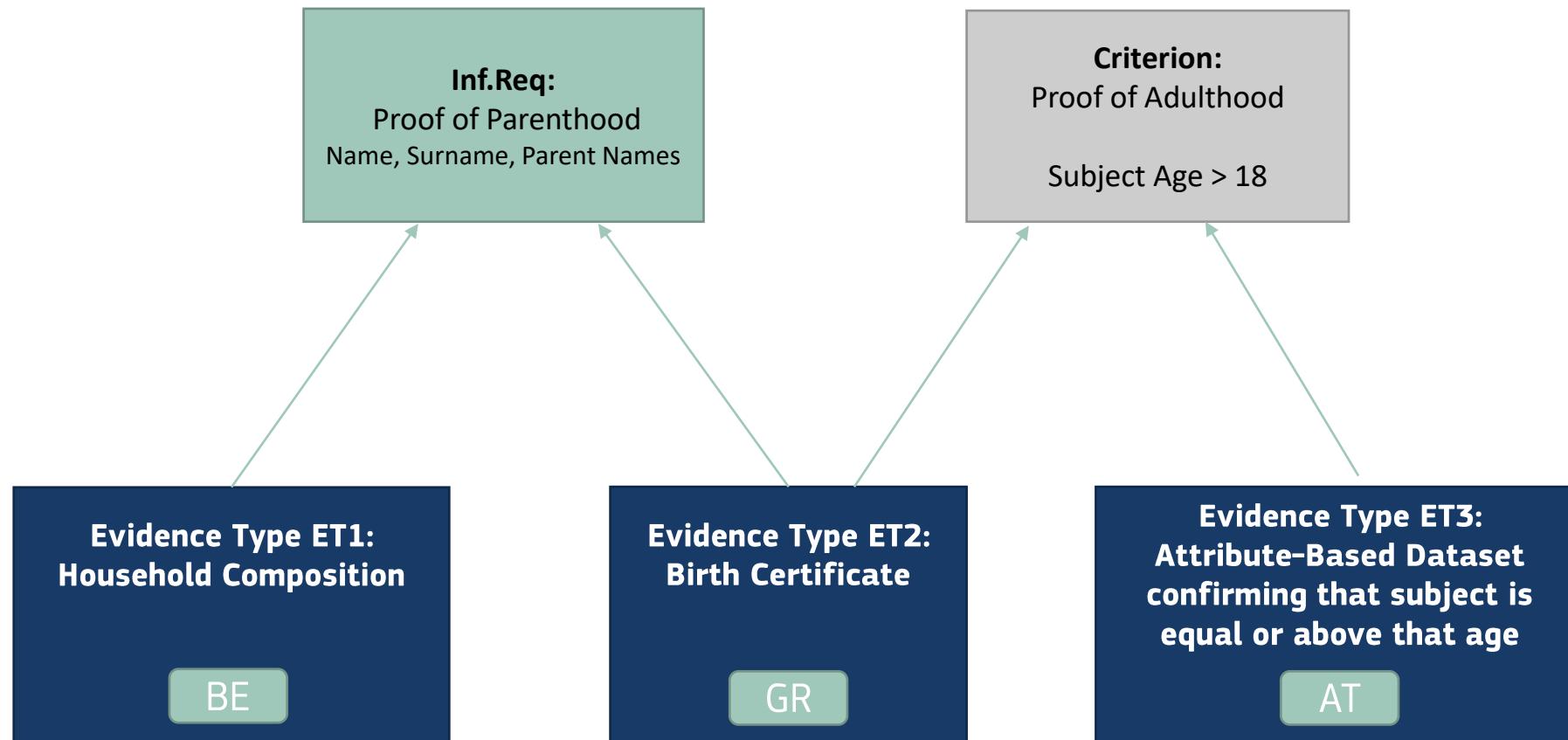
Data Service Directory

Overview

- Handles and maintains a catalogue **of Evidence Providers** with the **Evidence Types** they provide upon request through their **Data Services**.
- An Evidence Provider that serves Evidence of a specific evidence type MUST register this capability in the DSD by registering as an Evidence Provider with its Data Services.
- The **DSD** is used in the **Evidence Exchange** process by the **Evidence Requesters** (Procedure Portals) to discover **the Evidence Providers** that can provide **the pieces of Evidence** they require, together with the **required metadata** and attributes imposed by the Data Services.
- A query is sent to the Data Service Directory (DSD) with the **evidence type identifier** (provided by the Evidence Broker) and Member State / Jurisdiction information.
- The DSD returns the **Evidence Provider metadata**, combined with the **Data Service specific information** (Delivery Access point Identifier, exchange protocol supported etc)

Evidence Requester

Data Service Directory

Data service provider query

Data Service provider response
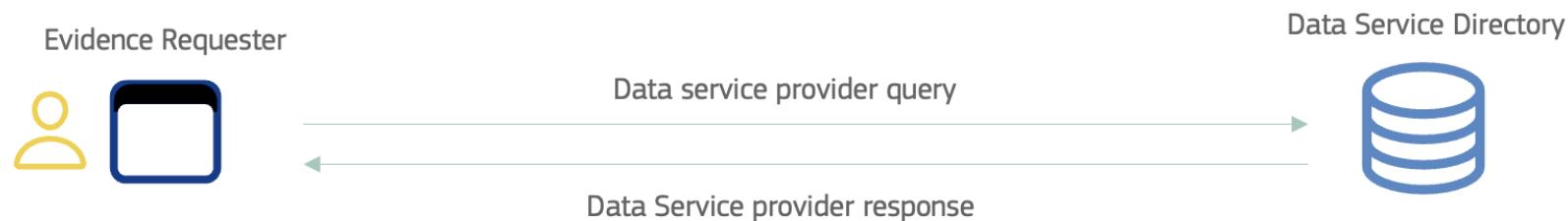
Data Service Directory

Explanation & examples

The main functionality of the DSD is to publish Data Services of Evidence Providers that provide distributions of Evidence Types and make them discoverable through query APIs. The functionality requires four main classes of Information:

- The **Data Service Evidence Type**, providing the semantic information and requirements for retrieving an evidence type from a Data Service.

- The **Distribution Metadata** of an Evidence Type, describing the format, and the semantic and syntactic conformance, under which the Evidence Type can be distributed.

- The **Evidence Provider**, describing the details of the Provider of the Evidence Type.

- The **Data Service**, describing the technical endpoint and supported technical protocols from which Evidence Types can be retrieved from their Evidence Providers

Data Service Directory

Evidence Types mapped to Data Services examples
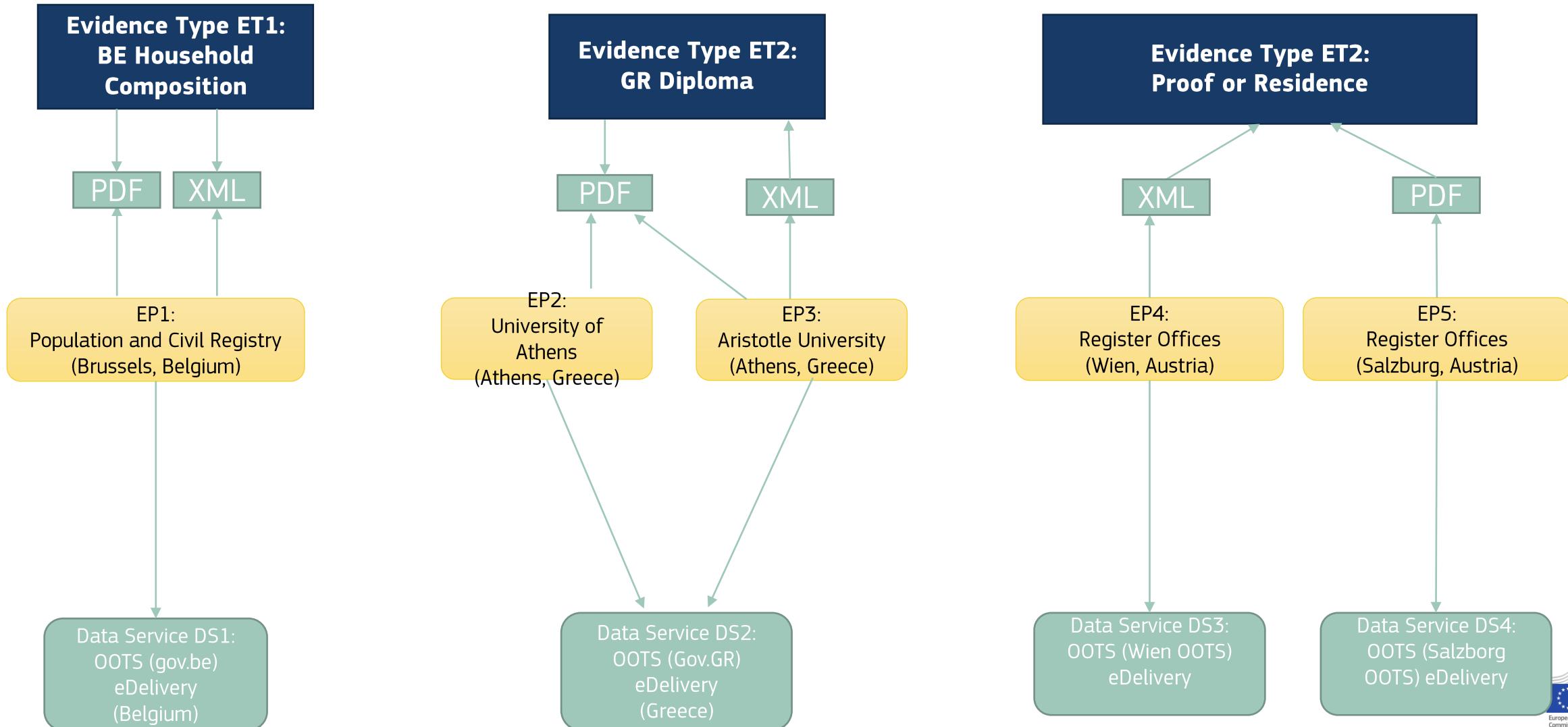
Data Service Directory and Evidence Broker – Technical Level Flows

Carmen-Ionela Rotuna

Evidence Broker

Get List of Requirements

«server base url»/eb/rest/search?queryId=**urn:fdc:oots:eb:ebxml-regrep:queries:requirements-by-procedure-and-jurisdiction**&procedure-id**=R1**&country-code=**DE**&jurisdiction-admin-l2=**DE3**

Parameter	Requirement	Description
queryId	MUST	This parameter MUST have value **urn:fdc:oots:eb:ebxml-regrep:queries:requirements-by-procedure-and-jurisdiction**.
procedure-id	OPTIONAL	The identifier of the procedure at the EU level, used to filter only the requirements that are used under the specific procedure
country-code	OPTIONAL	The jurisdiction of the procedure, expressed as a ISO 3166-2 country code, used to filter only the requirements that are used under the specific member state for procedure implementation
jurisdiction-admin-l2	OPTIONAL	The level two administration level code for the jurisdiction of the reference frameworks that are connected to a requirement and procedure, expressed using NUTS code. It MUST be combined with country-code
jurisdiction-admin-l3	OPTIONAL	The level three administration level code for the jurisdiction of the reference frameworks that are connected to a requirement and procedure, expressed using LAU code. It MUST be combined with country-code

```xml
<query:QueryResponse xmlns="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:4.0"
    xmlns:lcm="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:4.0"
    xmlns:query="urn:oasis:names:tc:ebxml-regrep:xsd:query:4.0"
    xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:4.0"
    xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:4.0"
    xmlns:sdg="http://data.europa.eu/p4s"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" totalResultCount="1" startIndex="0" status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success">
    <rim:RegistryObjectList>
        <rim:RegistryObject id="urn:uuid:8c3ba281-73fd-4b22-852d-b7fc972db532">
            <rim:Slot name="Requirement">
                <rim:SlotValue xsi:type="rim:AnyValueType">
                    <sdg:Requirement>
                        <sdg:Identifier>https://sr.oots.tech.europa.eu/requirements/315cfd75-6605-49c4-b0fe-799833b41099</sdg:Identifier>
                        <sdg:Name lang="EN">Proof of Birth</sdg:Name>
                        <sdg:Name lang="DE">Geburtsnachweis</sdg:Name>
                        <!-- List of Reference Frameworks that implement the Requirement-->
                        <sdg:ReferenceFramework>
                            <!-- Link to the Procedure as implemented in Germany, uniquely identified by the Identifier and Jurisdiction. The name of the procedure, as declared in
                                the SDG Regulation; Is possibly extended or replaced with national reference frameworks when the procedure is implemented by a Member State regulation
                            <sdg:Identifier>118fd444-6443-42be-a084-c9fbfd1f674d</sdg:Identifier>
                            <sdg:Title lang="EN">Procedure #1 - Requesting proof of registration of birth</sdg:Title>
                            <sdg:Title lang="DE">Verfahren #1 - Beantragung des Nachweises über die Eintragung in das Geburtenregister</sdg:Title>
                            <sdg:Description lang="EN"> Procedure #1 "Requesting proof of registration of birth" belongs to the life event "Birth" of Annex II of the Regulation (EU)
                                of the European Parliament and of the Council of 2 October 2018 establishing a single digital gateway to provide access to information, to procedures
                            </sdg:Description>
                            <sdg:Description lang="DE"> Das Verfahren #1 "Beantragung des Nachweises über die Eintragung in das Geburtenregister" gehört zum Lebensereignis "Geburt" d
                            </sdg:Description>
                            <!-- The Identifier of the SDGR Procedure which this procedure relates to encoded according to Procedures-CodeList.gc. In this case R1 relates to "Request
                            <sdg:RelatedTo>
                                <sdg:Identifier>R1</sdg:Identifier>
                            </sdg:RelatedTo>
                            <!-- Country - Mandatory - ISO code. Requirement is connected to the implementation of Procedure 1 in Germany. Regional Codes (AdminUnitLevel 2 and 3)
                                not applicable for DE in this Procedure (Common Reference Framework for the country)  -->
                            <sdg:Jurisdiction>
                                <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
                            </sdg:Jurisdiction>
                        </sdg:ReferenceFramework>
                    </sdg:Requirement>
                </rim:SlotValue>
            </rim:Slot>
        </rim:RegistryObject>
    </rim:RegistryObjectList>
</query:QueryResponse>
```

Evidence Broker

Get Evidence Types Query

«server base url»/eb/rest/search?queryId= **urn:fdc:oots:eb:ebxml-regrep:queries:evidence-types-by-requirement-and-jurisdiction&requirement-id=315cfd75-6605-49c4-b0fe-799833b41099&country-code=DE**

| Parameter	Requirement	Description
queryId	MANDATORY	**urn:fdc:oots:eb:ebxml-regrep:queries:evidence-types-by-requirement-and-jurisdiction**
requirement-id	MANDATORY	The id of the requirement we request the evidence types for
country-code	OPTIONAL	The country code of the mapped evidence types under request
jurisdiction-admin-l2	OPTIONAL	The level two administration level code for the jurisdiction of the evidence type, expressed using NUTS code. It MUST be combined with country-code
jurisdiction-admin-l3	OPTIONAL	The level three administration level code for the jurisdiction of the evidence type, expressed using LAU code. It MUST be combined with country-code

Evidence Broker

Get Evidence Types Query Response (1)

```xml
<query:QueryResponse
    xmlns:lcm="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:4.0"
    xmlns:query="urn:oasis:names:tc:ebxml-regrep:xsd:query:4.0"
    xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:4.0"
    xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:4.0"
    xmlns:sdg="http://data.europa.eu/p4s"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success">

    <rim:RegistryObjectList>
        <!-- One registry object per dataset -->
        <rim:RegistryObject id="urn:uuid:7b8a8ec6-71b9-4864-b147-f65debc14653">
            <rim:Slot name="Requirement">
                <rim:SlotValue xsi:type="rim:AnyValueType">
                    <sdg:Requirement>
                        <sdg:Identifier>https://sr.oots.tech.europa.eu/requirements/315cfd75-6605-49c4-b0fe-799833b41099</sdg:Identifier>
                        <sdg:Name lang="EN">Proof of Birth</sdg:Name>
                        <sdg:Name lang="DE">Geburtsnachweis</sdg:Name>
                        <!-- List of Reference Frameworks that implement the Requirement-->
                        <sdg:ReferenceFramework>
                            <!-- Link to the Procedure as implemented in Germany, uniquely identified by the Identifier and Jurisdiction. The name of the procedure, as declared in
                             the SDG Regulation; Is possibly extended or replaced with national reference frameworks when the procedure is implemented by a Member State regulation --
                            <sdg:Identifier>118fd444-6443-42be-a084-c9fbfd1f674d</sdg:Identifier>
                            <sdg:Title lang="EN">Procedure #1 - Requesting proof of registration of birth</sdg:Title>
                            <sdg:Title lang="DE">Verfahren #1 - Beantragung des Nachweises über die Eintragung in das Geburtenregister</sdg:Title>
                            <sdg:Description lang="EN"> Procedure #1 "Requesting proof of registration of birth" belongs to the life event "Birth" of Annex II of the Regulation (EU)
                                of the European Parliament and of the Council of 2 October 2018 establishing a single digital gateway to provide access to information, to procedures
                            </sdg:Description>
                            <sdg:Description lang="DE"> Das Verfahren #1 "Beantragung des Nachweises über die Eintragung in das Geburtenregister" gehört zum Lebensereignis "Geburt" d
                            </sdg:Description>
                            <!-- The Identifier of the SDGR Procedure which this procedure relates to encoded according to Procedures-CodeList.gc. In this case R1 relates to
                                "Requesting a birth certificate" -->
                            <sdg:RelatedTo>
                                <sdg:Identifier>R1</sdg:Identifier>
                            </sdg:RelatedTo>
                            <!-- Country - Mandatory - ISO code. Requirement is connected to the implementation of Procedure 1 in Germany. Regional Codes (AdminUnitLevel 2 and 3)
                                not applicable for DE in this Procedure (Common Reference Framework for the country)  -->
                            <sdg:Jurisdiction>
                                <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
                            </sdg:Jurisdiction>
                        </sdg:ReferenceFramework>
```

Evidence Broker

Get Evidence Types Query Response(2)

```xml
            <sdg:EvidenceTypeList>
                <sdg:Identifier>970918e4-1b27-41f0-be20-0a7c5fe4059f</sdg:Identifier>
                <!-- Example structure of an evidence type having national coverage area / jurisdiction = DE -->
                <sdg:EvidenceType>
                    <!-- EvidenceTypeClassification Information - Provided by the Evidence Broker on the basis of the Semantic Repository. Used for linking with the
                         Semantic Repository and Data Service Directory -->
                    <sdg:EvidenceTypeClassification>https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e</sdg:EvidenceTypeCl
                    <sdg:Title lang="EN">Certificate of Birth</sdg:Title>
                    <sdg:Title lang="DE">Geburtsurkunde</sdg:Title>
                    <sdg:Description lang="EN">An official certificate of birth of a person - with first name, surname, sex, date and place of birth, which is obtained fro
                    <sdg:Description lang="DE">Eine amtliche Bescheinigung über die Geburt einer Person – mit Vorname, Familienname, Geschlecht, Datum und Ort der Geburt,
                    <sdg:Jurisdiction>
                        <!-- Country - Mandatory - ISO code -->
                        <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
                        <!-- Regional Code not applicable for DE (Common Evidence for the country) -->
                    </sdg:Jurisdiction>
                </sdg:EvidenceType>
            </sdg:EvidenceTypeList>
        </sdg:Requirement>
      </rim:SlotValue>
    </rim:Slot>
  </rim:RegistryObject>
 </rim:RegistryObjectList>
</query:QueryResponse>
```

Evidence Broker

Get List of Requirements Error Response
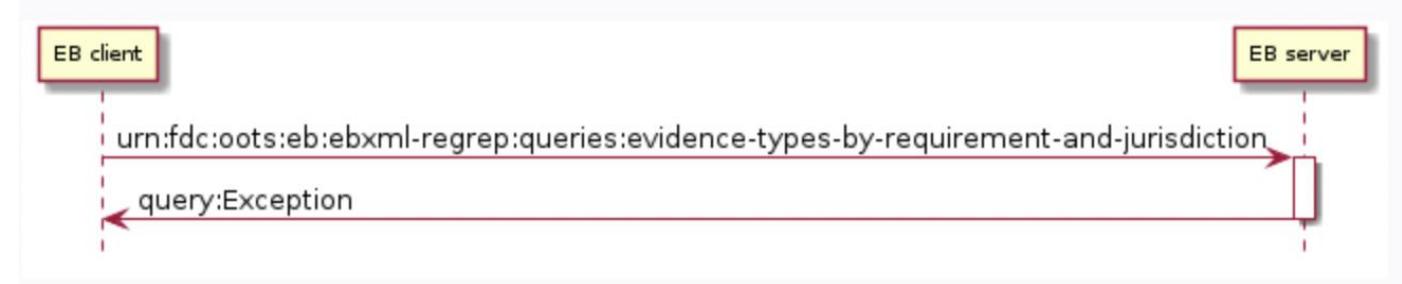
The exception has the following properties that are profiled for each expected error of the query.
- **xsi:type**: The type of the error, selectable from a predefined set of error classes of the Query Interface of the Common Service.
- **severity**: The severity of the error, selectable from a predefined set of error classes of Query Interface of the Common Service.
- **message**: A string describing the error in Human Readable form.
- **code**: A code for the error, specified by the Common Service Technical Design documents.

```xml
<query:QueryResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:4.0"
    xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:4.0"
    xmlns:query="urn:oasis:names:tc:ebxml-regrep:xsd:query:4.0"
    status="urn:oasis:nammes:tc:ebxml-regrep:ResponseStatusType:Failure">
    <rs:Exception
        xsi:type="rs:ObjectNotFoundExceptionType"
        severity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error"
        message="The result set is empty"
        code="EB:ERR:0001">
    </rs:Exception>
</query:QueryResponse>
```

Evidence Broker

Error Response Codes

#	Error Title	Type	code	Message
1	Resultset is empty	rs:ObjectNotFoundExceptionType	EB:ERR:0001	The result set is empty
2	Requirement not found	rs:ObjectNotFoundExceptionType	EB:ERR:0002	The requirement requested, represented by the requirement id, does not exist
3	Bad Query Parameters	rs:InvalidRequestExceptionType	EB:ERR:0003	The query parameters do not follow the query specification
4	Unknown Jurisdiction Level Code	rs:InvalidRequestExceptionType	EB:ERR:0004	The jurisdiction level code query parameter is invalid or unknown
5	Unknown procedure	rs:InvalidRequestExceptionType	EB:ERR:0005	The value of the procedure-id query parameter is invalid or unknown
6	Unknown procedure implementation country	rs:InvalidRequestExceptionType	EB:ERR:0006	The value of the procedure implementation country query parameter is invalid or unknown
7	Unknown Query	rs:InvalidRequestExceptionType	EB:ERR:0007	The requested Query does not exist

Data Service Directory

Find Data Services of Evidence Providers

«server base url»/rest/search?queryId=**urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction&evidence-type-classification=https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e&country-code=DE**

| Parameter	Requirement	Description
queryId	MANDATORY	This parameter MUST have value **urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction**.
evidence-type-classification	MANDATORY	The Evidence Type classification code.
country-code	MANDATORY	Two-letter ISO 3166-1 alpha-2 country code.
jurisdiction-admin-l2	OPTIONAL	3 to 5 letter NUTS code.
jurisdiction-admin-l3	OPTIONAL	LAU Code.
jurisdiction-context-id	OPTIONAL	Used to provide the jurisdiction context id used for the query. The parameter MUST be used when responding to a DSD exception received, by providing the Jurisdiction Context Id found in the exception.
evidence-type-id	OPTIONAL	Used to provide the selected Data Service Evidence Type from a set of multiple. The parameter MUST be used when responding to a DSD exception received, by providing the Identifier of the selected DataServiceEvidenceType found in the exception

Data Service Directory

Find Data Services of Evidence Providers
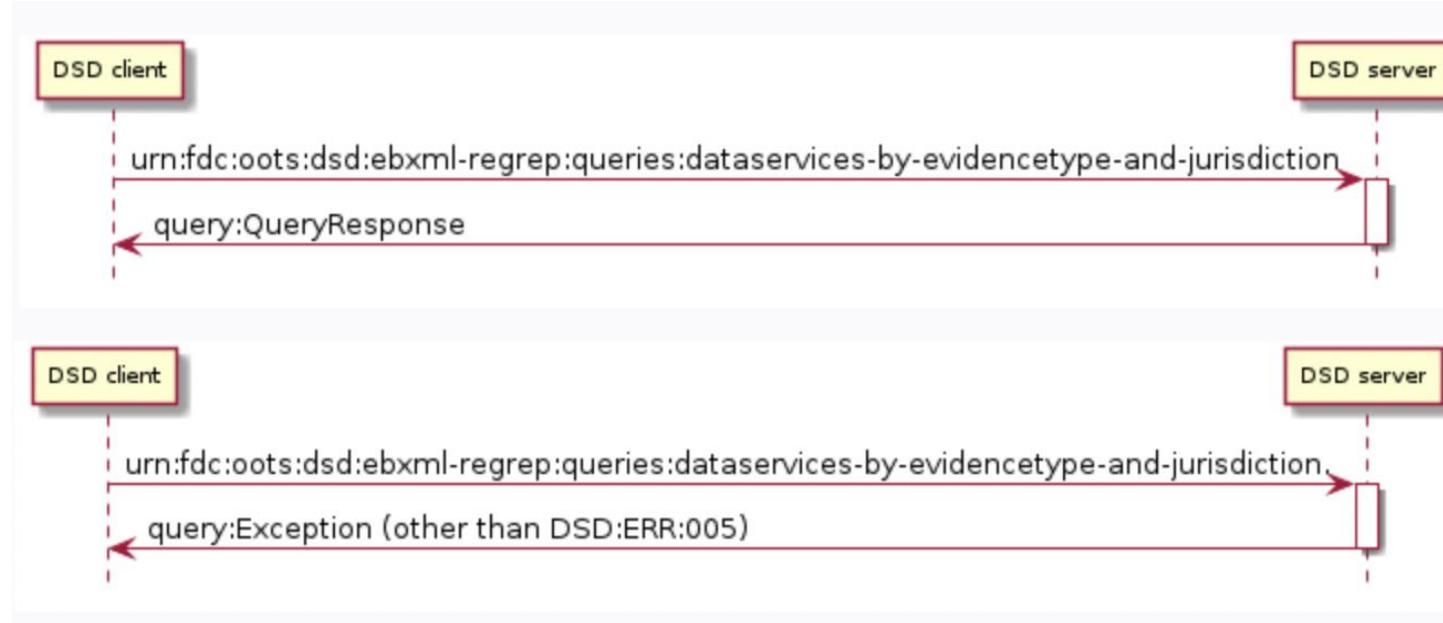
«server base url»/rest/search?queryId=**urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction&evidence-type-classification=https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e&country-code=DE**

Data Service Directory

Example of the Successful Query Response – Simple Flow

```xml
<query:QueryResponse
    xmlns:query="urn:oasis:names:tc:ebxml-regrep:xsd:query:4.0"
    xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:4.0"
    xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:4.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:sdg="http://data.europa.eu/p4s"
    status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success">

    <rim:RegistryObjectList>
        <!-- One registry object per dataset -->
        <rim:RegistryObject id="urn:uuid:4d66b7df-ad09-4098-942c-cb8da467af2a">
            <rim:Slot name="DataServiceEvidenceType">
                <rim:SlotValue xsi:type="rim:AnyValueType">
                    <sdg:DataServiceEvidenceType>
                        <!-- - - Evidence Type Metadata - - -->
                        <!-- The Data Service assigned Unique Identifier of the Evidence Type. Must be used in the Evidence Exchange Request -->
                        <sdg:Identifier>2af27699-f131-4411-8fdb-9e8cd4e8bded</sdg:Identifier>
                        <!-- Classification Information - Used for linking with the Semantic Repository and Evidence Broker -->
                        <sdg:EvidenceTypeClassification>https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e</sdg:EvidenceTypeClassificat
                        <sdg:Title lang="EN">Certificate of Birth</sdg:Title>
                        <sdg:Title lang="DE">Geburtsurkunde</sdg:Title>
                        <sdg:Description lang="EN">An official certificate of birth of a person - with first name, surname, sex, date and place of birth, which is obtained from the bi
                        <sdg:Description lang="DE">Eine amtliche Bescheinigung über die Geburt einer Person – mit Vorname, Familienname, Geschlecht, Datum und Ort der Geburt, welche d
                        <!-- Distribution Information - Multiple Distributions per Data Service Evidence Type -->
                        <!-- XML Distribution, conforming to the common data model on Birth Certificate -->
                        <sdg:DistributedAs>
                            <sdg:Format>application/xml</sdg:Format>
                            <sdg:ConformsTo>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0</sdg:ConformsTo>
                        </sdg:DistributedAs>
                        <!-- XML Distribution, conforming to the common data model on Birth Certificate, Linking to the subset "Age of Majority" only -->
                        <sdg:DistributedAs>
                            <sdg:Format>application/xml</sdg:Format>
                            <sdg:ConformsTo>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0</sdg:ConformsTo>
                            <sdg:Transformation>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0/age-of-majority</sdg:Transformation>
                        </sdg:DistributedAs>
                        <!-- PDF Distribution. PDF is unstructured data so there is no conformance to a data model -->
                        <sdg:DistributedAs>
                            <sdg:Format>application/pdf</sdg:Format>
                        </sdg:DistributedAs>
```

Data Service Directory

Example of the Successful Query Response – Simple Flow

```xml
<!-- - - Evidence Provider and Data Service Metadata - - -->
<!-- Access Service represents the Data Service serving the piece of Evidence on behalf of an Evidence Provider -->
<!-- Multiple Access Services, one per Evidence Provider. In this example the same Access Service (e.g. an Intermediary Platform) is referenced for both Evidence
<sdg:AccessService>
    <sdg:Identifier schemeID="urn:cef.eu:names:identifier:EAS:0060">8889909098</sdg:Identifier>
    <!-- The identifier of the Access Service, using ebcore Party ID Type. Used in eDelivery Evidence Exchange for PMode Mapping - Corner 3 (C3). C3 is an Access
    <sdg:ConformsTo>oots:edm-v1.0</sdg:ConformsTo>
    <!-- The Evidence Exchange profile version to which this access service expects / serves -->

    <!-- The Evidence Provider Information of this Access Service - Corner 4 (C4). C4 is the final recipient party, which can be selected to receive the Evidence
    <sdg:Publisher>
        <sdg:Identifier schemeID="urn:cef.eu:names:identifier:EAS:9930">DE73524311</sdg:Identifier>
        <sdg:Name lang="EN">Civil Registration Office Berlin I</sdg:Name>
        <sdg:Address>
            <sdg:FullAddress>Schönstedtstraße 5, 13357 Berlin, Germany</sdg:FullAddress>
            <sdg:LocatorDesignator>5</sdg:LocatorDesignator>
            <sdg:PostCode>13357</sdg:PostCode>
            <sdg:PostCityName>Berlin</sdg:PostCityName>
            <sdg:Thoroughfare>Schönstedtstraße</sdg:Thoroughfare>
            <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
            <sdg:AdminUnitLevel2>DE3</sdg:AdminUnitLevel2>
        </sdg:Address>
        <!-- The Publisher is only able to provide information for LAU 11000000, Berlin, City   -->
        <sdg:Jurisdiction>
            <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
            <sdg:AdminUnitLevel3>11000000</sdg:AdminUnitLevel3>
        </sdg:Jurisdiction>
    </sdg:Publisher>
</sdg:AccessService>
```

Data Service Directory

Example of the Successful Query Response – Simple Flow

```xml
<sdg:AccessService>
    <sdg:Identifier schemeID="urn:cef.eu:names:identifier:EAS:0060">8889909099</sdg:Identifier>
    <!-- The identifier of the Access Service, using ebcore Party ID Type. Used in eDelivery Evidence Exchange for PMode Mapping - Corner 3 (C3). C3 is an Access
    <sdg:ConformsTo>oots:edm-v1.0</sdg:ConformsTo>
    <sdg:Publisher>
        <!-- The Evidence Provider Information of this Access Service - Corner 4 (C4). C4 is the final recipient party, which can be selected to receive the Evide
        <sdg:Identifier schemeID="urn:cef.eu:names:identifier:EAS:0204">02-CivilRegistration-66</sdg:Identifier>
        <sdg:Name lang="EN">Civil Registration Office Hamburg</sdg:Name>
        <sdg:Address>
            <sdg:FullAddress>Hamburger Str. 31</sdg:FullAddress>
            <sdg:LocatorDesignator>31</sdg:LocatorDesignator>
            <sdg:PostCode>22083</sdg:PostCode>
            <sdg:PostCityName>Hamburg</sdg:PostCityName>
            <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
            <sdg:AdminUnitLevel2>DE6</sdg:AdminUnitLevel2>
        </sdg:Address>
        <!-- The Publisher is only able to provide information for LAU 02000000, Hamburg City   -->
        <sdg:Jurisdiction>
            <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
            <sdg:AdminUnitLevel3>02000000</sdg:AdminUnitLevel3>
        </sdg:Jurisdiction>
    </sdg:Publisher>
</sdg:AccessService>
<!-- Level Of Assurance Required for the Evidence Type -->
<sdg:AuthenticationLevelOfAssurance>High</sdg:AuthenticationLevelOfAssurance>
                </sdg:DataServiceEvidenceType>
            </rim:SlotValue>
        </rim:Slot>
    </rim:RegistryObject>
</rim:RegistryObjectList>
</query:QueryResponse>
```

Data Service Directory

Conditional Flow (DSD:ERR:005)

- The following figure illustrates the first part of the conditional flow resulting in a query:Exception with error code
DSD:ERR:0005 (first DSD response)

- The query request will have the following format:

«server base url»/rest/search?queryId=**urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction&evidence-type-classification= https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e&country-code=DE**

Parameter	Requirement	Description
queryId	MANDATORY	This parameter MUST have the value **urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction**
evidence-type-classification	MANDATORY	The Evidence Type classification code: **https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e**
country-code	MANDATORY	Two-letter ISO 3166-1 alpha-2 country code: **DE**

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Data Service Directory

Example Conditional Flow (DSD:ERR:0005)((1)

```xml
<query:QueryResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:4.0"
  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:sdg="http://data.europa.eu/p4s"
  status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Failure">
  <rs:Exception xsi:type="rs:ObjectNotFoundExceptionType" severity="urn:sr.oots.tech.europa.eu:codes:ErrorSeverity:DSDErrorResponse:AdditionalInput"
    message="Additional parameters required" detail="The query requires the included extra attributes to be provided by the user." code="DSD:ERR:0005">
    <rim:Slot name="DataServiceEvidenceType">
      <rim:SlotValue xsi:type="rim:AnyValueType">
        <sdg:DataServiceEvidenceType>
          <sdg:Identifier>2af27699-f131-4411-8fdb-9e8cd4e8bded</sdg:Identifier>
          <!-- Classification Information - Used for linking with the Semantic Repository and Evidence Broker -->
          <sdg:EvidenceTypeClassification>https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e</sdg:EvidenceTypeClassification>
          <sdg:Title lang="EN">Certificate of Birth</sdg:Title>
          <sdg:Title lang="DE">Geburtsurkunde</sdg:Title>
          <sdg:Description lang="EN">An official certificate of birth of a person - with first name, surname, sex, date and place of birth, which is obtained from the birth reg
          <sdg:Description lang="DE">Eine amtliche Bescheinigung über die Geburt einer Person – mit Vorname, Familienname, Geschlecht, Datum und Ort der Geburt, welche aus dem
          <!-- Distribution Information - Multiple Distributions per Data Service Evidence Type -->
          <!-- XML Distribution, conforming to the common data model on Birth Certificate -->
          <sdg:DistributedAs>
            <sdg:Format>application/xml</sdg:Format>
            <sdg:ConformsTo>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0</sdg:ConformsTo>
          </sdg:DistributedAs>
          <!-- XML Distribution, conforming to the common data model on Birth Certificate, Linking to the subset "Age of Majority" only -->
          <sdg:DistributedAs>
            <sdg:Format>application/xml</sdg:Format>
            <sdg:ConformsTo>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0</sdg:ConformsTo>
            <sdg:Transformation>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0/age-of-majority</sdg:Transformation>
          </sdg:DistributedAs>
          <!-- PDF Distribution. PDF is unstructured data so there is no conformance to a data model -->
          <sdg:DistributedAs>
            <sdg:Format>application/pdf</sdg:Format>
          </sdg:DistributedAs>
        </sdg:DataServiceEvidenceType>
      </rim:SlotValue>
    </rim:Slot>
```

Data Service Directory

Example Conditional Flow (DSD:ERR:0005)(2)

```xml
<!-- Jurisdiction Mapping Requests -->
<rim:Slot name="JurisdictionDetermination">
  <rim:SlotValue xsi:type="rim:AnyValueType">
    <sdg:EvidenceProviderJurisdictionDetermination>
      <sdg:JurisdictionContextId>5ce148b9-5578-4049-aecf-af7bb55714b5</sdg:JurisdictionContextId>
      <sdg:JurisdictionContext lang="EN">Place Of Birth</sdg:JurisdictionContext>
      <sdg:JurisdictionContext lang="DE">Geburtsort</sdg:JurisdictionContext>
      <!-- Codelist defining the jurisdiction levels, published in the semantic repository - JurisdictionLevel-CodeList.gc -->
      <sdg:JurisdictionLevel>LAU</sdg:JurisdictionLevel>
    </sdg:EvidenceProviderJurisdictionDetermination>
  </rim:SlotValue>
</rim:Slot>

<!-- Determination of the EvidenceProviderClassification to the User's attributes. In this example the applicant must indicate if he has ever resided in the country.  -->
<rim:Slot name="UserRequestedClassificationConcepts">
  <rim:SlotValue xsi:type="rim:CollectionValueType" collectionType="urn:oasis:names:tc:ebxml-regrep:CollectionType:Set">
    <rim:Element xsi:type="rim:AnyValueType">
      <sdg:EvidenceProviderClassification>
        <sdg:Identifier>b07146b6-1468-41a7-a10f-ee2a61429dbc</sdg:Identifier>
        <sdg:Type>Codelist</sdg:Type>
        <!-- Definition of the value expression. Must be published in the Semantic Repository. The codelist contains the values ApplicantHasNeverBeenResidentInGermany and
          ApplicantHasBeenResidentInGermany -->
        <sdg:ValueExpression>https://sr.oots.tech.europa.eu/ep-classification/de/countryresidence</sdg:ValueExpression>
        <sdg:Description lang="EN">Rules of responsibility for the processing of personal status cases of German citizens without residence information
        </sdg:Description>
        <sdg:Description lang="DE">Zuständigkeitsregelungen für die Bearbeitung von personenstandsrechtlichen Vorgängen deutscher Staatsangehöriger ohne Wohnsitzinformation</sdg:
      </sdg:EvidenceProviderClassification>
    </rim:Element>
  </rim:SlotValue>
</rim:Slot>
</rs:Exception>
</query:QueryResponse>
```

Data Service Directory

Conditional Flow (DSD:ERR:005)

- The following figure illustrates the conditional flow resulting in a query:Exception with error code DSD:ERR:0005 (first response) and a query:QueryResponse (second response)
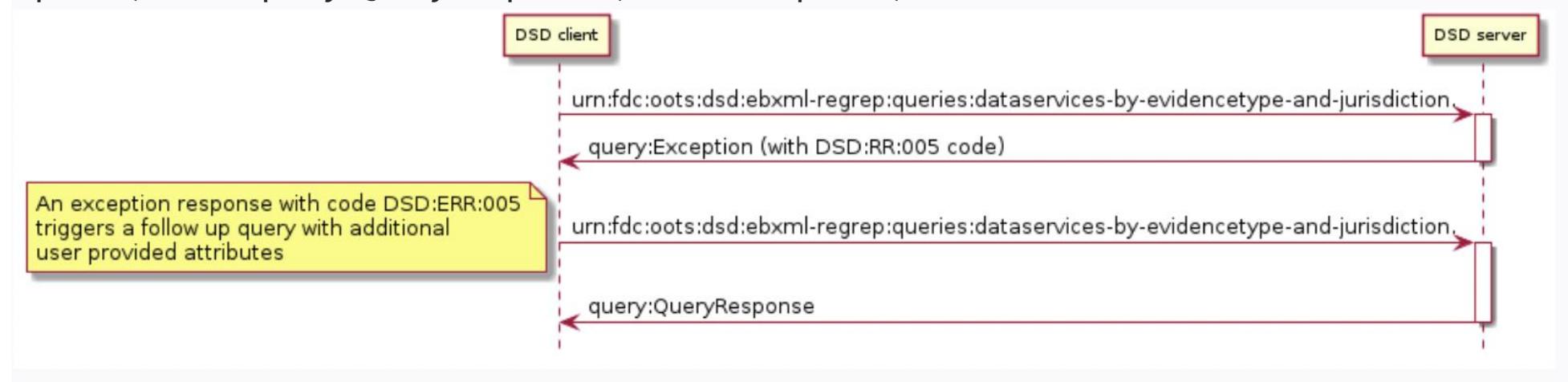
The Evidence Requester will request the following information from the user:

- **jurisdiction-context-id**: the place of birth
- **evidence-type-id**: the Identifier of the selected DataServiceEvidenceType found in the exception

Data Service Directory

Parameter	Description	Value
queryId	This parameter MUST have value urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction	urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction
evidence-type-classification	The Evidence Type classification code	https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e
country-code	Two-letter ISO 3166-1 alpha-2 country code	DE
jurisdiction-admin-l3	LAU Code	11000000
jurisdiction-context-id	The parameter MUST be used when responding to a DSD exception received, by providing the Jurisdiction Context Id found in the exception:	5ce148b9-5578-4049-aecf-af7bb55714b5
evidence-type-id	Provides the Identifier of the selected DataServiceEvidenceType found in the exception	2af27699-f131-4411-8fdb-9e8cd4e8bded
classification-concept-identifier	b07146b6-1468-41a7-a10f-ee2a61429dbc	ApplicantHasBeenResidentInGermany

«server base url» **/rest/search?queryId=urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction&evidence-type-classification=https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e&country-code=DE&evidence-type-id=2af27699-f131-4411-8fdb-9e8cd4e8bded&jurisdiction-context-id=5ce148b9-5578-4049-aecf-af7bb55714b5&jurisdiction-admin-l3=11000000&b07146b6-1468-41a7-a10f-ee2a61429dbc=ApplicantHasBeenResidentInGermany**

Data Service Directory

Example of the Successful Query Response(1)

```xml
<query:QueryResponse
  xmlns:query="urn:oasis:names:tc:ebxml-regrep:xsd:query:4.0"
  xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:4.0"
  xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:4.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:sdg="http://data.europa.eu/p4s"
  status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Success">

  <rim:RegistryObjectList>
    <!-- One registry object per dataset -->
    <rim:RegistryObject id="urn:uuid:45c2b94b-5d2b-484b-b6ab-eb542da191cc">
      <rim:Slot name="DataServiceEvidenceType">
        <rim:SlotValue xsi:type="rim:AnyValueType">
          <sdg:DataServiceEvidenceType>
            <!-- - - Evidence Type Metadata - - -->
            <!-- The Data Service assigned Unique Identifier of the Evidence Type. Must be used in the Evidence Exchange Request -->
            <sdg:Identifier>2af27699-f131-4411-8fdb-9e8cd4e8bded</sdg:Identifier>
            <!-- Classification Information - Used for linking with the Semantic Repository and Evidence Broker -->
            <sdg:EvidenceTypeClassification>https://sr.oots.tech.europa.eu/evidencetypeclassifications/DE/ca8afed6-2dc0-422a-a931-d21c3d8d370e</sdg:EvidenceTypeClassification>
            <sdg:Title lang="EN">Certificate of Birth</sdg:Title>
            <sdg:Title lang="DE">Geburtsurkunde</sdg:Title>
            <sdg:Description lang="EN">An official certificate of birth of a person - with first name, surname, sex, date and place of birth, which is obtained from the birth
            <sdg:Description lang="DE">Eine amtliche Bescheinigung über die Geburt einer Person – mit Vorname, Familienname, Geschlecht, Datum und Ort der Geburt, welche aus
            <!-- Distribution Information - Multiple Distributions per Data Service Evidence Type -->
            <!-- XML Distribution, conforming to the common data model on Birth Certificate -->
            <sdg:DistributedAs>
              <sdg:Format>application/xml</sdg:Format>
              <sdg:ConformsTo>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0</sdg:ConformsTo>
            </sdg:DistributedAs>
            <!-- XML Distribution, conforming to the common data model on Birth Certificate, Linking to the subset "Age of Majority" only -->
            <sdg:DistributedAs>
              <sdg:Format>application/xml</sdg:Format>
              <sdg:ConformsTo>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0</sdg:ConformsTo>
              <sdg:Transformation>https://sr.oots.tech.europa.eu/distributions/certificate-of-birth-1.0.0/age-of-majority</sdg:Transformation>
            </sdg:DistributedAs>
            <!-- PDF Distribution. PDF is unstructured data so there is no conformance to a data model -->
            <sdg:DistributedAs>
              <sdg:Format>application/pdf</sdg:Format>
            </sdg:DistributedAs>
```

Data Service Directory

Example of the Successful Query Response(2)

```xml
<!-- - - Evidence Provider and Data Service Metadata. Access Service represents the Data Service serving the piece of Evidence on behalf of an Evidence Provider -->
<!-- Multiple Access Services, one per Evidence Provider. In this example the same Access Service (e.g. an Intermediary Platform) is referenced for both Evidence Provid
<sdg:AccessService>
  <sdg:Identifier schemeID="urn:cef.eu:names:identifier:EAS:0060">8889909098</sdg:Identifier>
  <!-- The identifier of the Access Service, using ebcore Party ID Type. Used in eDelivery Evidence Exchange for PMode Mapping - Corner 3 (C3). C3 is an
    Access Point that receives messages on behalf of C4. The scheme ID must point to a valid Electronic Address Scheme (EAS) from the codelist EAS.gc -->
  <sdg:ConformsTo>oots:edm-v1.0</sdg:ConformsTo>
  <!-- The Evidence Exchange profile version to which this access service expects / serves -->
  <!-- The Evidence Provider Information of this Access Service - Corner 4 (C4). C4 is the final recipient party, which can be selected to receive the Evidence Request
    Query. The scheme ID must point to a valid Electronic Address Scheme (EAS) from the codelist EAS.gc  -->
  <sdg:Publisher>
    <sdg:Identifier schemeID="urn:cef.eu:names:identifier:EAS:9930">DE73524311</sdg:Identifier>
    <sdg:Name lang="EN">Civil Registration Office Berlin I</sdg:Name>
    <sdg:Address>
      <sdg:FullAddress>Schönstedtstraße 5, 13357 Berlin, Germany</sdg:FullAddress>
      <sdg:LocatorDesignator>5</sdg:LocatorDesignator>
      <sdg:PostCode>13357</sdg:PostCode>
      <sdg:PostCityName>Berlin</sdg:PostCityName>
      <sdg:Thoroughfare>Schönstedtstraße</sdg:Thoroughfare>
      <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
      <sdg:AdminUnitLevel2>DE3</sdg:AdminUnitLevel2>
    </sdg:Address>
    <!-- The Publisher is only able to provide information for LAU 11000000, Berlin, City   -->
    <sdg:Jurisdiction>
      <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
      <sdg:AdminUnitLevel3>11000000</sdg:AdminUnitLevel3>
    </sdg:Jurisdiction>
    <!-- An Example of an Information Concept that can be used to distinguish the capabilities of the Evidence Provider. In this example the capablity of the publisher
      to  provide information even if the applicant has never resided in the country is identified. The string values indicate that the Publisher is able to provide
      information even if the applicant has never resided in Germany.-->
    <sdg:ClassificationConcept>
      <sdg:Identifier>b07146b6-1468-41a7-a10f-ee2a61429dbc</sdg:Identifier>
      <sdg:Type>Codelist</sdg:Type>
      <!-- Definition of the value expression. Must be published in the Semantic Repository -->
      <sdg:ValueExpression>https://sr.oots.tech.europa.eu/ep-classification/de/countryresidence</sdg:ValueExpression>
      <sdg:Description lang="EN">Rules of responsibility for the processing of personal status cases of German citizens without residence information
      </sdg:Description>
      <sdg:Description lang="DE">Zuständigkeitsregelungen für die Bearbeitung von personenstandsrechtlichen Vorgängen deutscher Staatsangehöriger ohne Wohnsitzinformati
      <sdg:SupportedValue>
        <sdg:StringValue>ApplicantHasNeverBeenResidentInGermany</sdg:StringValue>
        <sdg:StringValue>ApplicantHasBeenResidentInGermany</sdg:StringValue>
      </sdg:SupportedValue>
    </sdg:ClassificationConcept>
  </sdg:Publisher></sdg:AccessService>
```

Data Service Directory

Example of the Successful Query Response(3)

```xml
<sdg:AccessService>
  <sdg:Identifier schemeID="urn:cef.eu:names:identifier:EAS:0060">8889909099</sdg:Identifier>
  <!-- The identifier of the Access Service, using ebcore Party ID Type. Used in eDelivery Evidence Exchange for PMode Mapping - Corner 3 (C3). C3 is an Access Point
    that receives messages on behalf of C4. The scheme ID must point to a valid Electronic Address Scheme (EAS) from the codelist EAS.gc -->
  <sdg:ConformsTo>oots:edm-v1.0</sdg:ConformsTo>
  <sdg:Publisher>
    <!-- The Evidence Provider Information of this Access Service - Corner 4 (C4). C4 is the final recipient party, which can be selected to receive the Evidence
      Request Query. The scheme ID must point to a valid Electronic Address Scheme (EAS) from the codelist EAS.gc  -->
    <sdg:Identifier schemeID="urn:cef.eu:names:identifier:EAS:0204">02-CivilRegistration-66</sdg:Identifier>
    <sdg:Name lang="EN">Civil Registration Office Hamburg</sdg:Name>
    <sdg:Address>
      <sdg:FullAddress>Hamburger Str. 31</sdg:FullAddress>
      <sdg:LocatorDesignator>31</sdg:LocatorDesignator>
      <sdg:PostCode>22083</sdg:PostCode>
      <sdg:PostCityName>Hamburg</sdg:PostCityName>
      <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
      <sdg:AdminUnitLevel2>DE6</sdg:AdminUnitLevel2>
    </sdg:Address>
    <!-- The Publisher is only able to provide information for LAU 02000000, Hamburg City   -->
    <sdg:Jurisdiction>
      <sdg:AdminUnitLevel1>DE</sdg:AdminUnitLevel1>
      <sdg:AdminUnitLevel3>02000000</sdg:AdminUnitLevel3>
    </sdg:Jurisdiction>
    <!-- An Example of an Information Concept that can be used to distinguish the capabilities of the Evidence Provider. In this example the capablity of the publisher
      to  provide information even if the applicant has never resided in the country is identified. The string values indicate that the Publisher is only able to provide
      information if the applicant has resided in Germany.-->
    <sdg:ClassificationConcept>
      <sdg:Identifier>b07146b6-1468-41a7-a10f-ee2a61429dbc</sdg:Identifier>
      <sdg:Type>Codelist</sdg:Type>
      <!-- Definition of the value expression. Must be published in the Semantic Repository -->
      <sdg:ValueExpression>https://sr.oots.tech.europa.eu/ep-classification/de/countryresidence</sdg:ValueExpression>
      <sdg:Description lang="EN">Rules of responsibility for the processing of personal status cases of German citizens without residence information
      </sdg:Description>
      <sdg:Description lang="DE">Zuständigkeitsregelungen für die Bearbeitung von personenstandsrechtlichen Vorgängen deutscher Staatsangehöriger ohne Wohnsitzinformation</sdg
      <sdg:SupportedValue>
        <sdg:StringValue>ApplicantHasBeenResidentInGermany</sdg:StringValue>
      </sdg:SupportedValue>
    </sdg:ClassificationConcept>
  </sdg:Publisher>
</sdg:AccessService>
```

Data Service Directory

Example of the Successful Query Response(4)

```xml
<!-- Level Of Assurance Required for the Evidence Type -->
<sdg:AuthenticationLevelOfAssurance>High</sdg:AuthenticationLevelOfAssurance>

<!-- Determination of the Jurisdiction Mapping to the User's attributes. LAU is required to identify the Place of Birth as Jurisdiction Context -->
<sdg:EvidenceProviderJurisdictionDetermination>
    <sdg:JurisdictionContextId>5ce148b9-5578-4049-aecf-af7bb55714b5</sdg:JurisdictionContextId>
    <sdg:JurisdictionContext lang="EN">Place Of Birth</sdg:JurisdictionContext>
    <sdg:JurisdictionContext lang="DE">Geburtsort</sdg:JurisdictionContext>
    <!-- Codelist defining the jurisdiction levels, published in the semantic repository - JurisdictionLevel-CodeList.gc -->
    <sdg:JurisdictionLevel>LAU</sdg:JurisdictionLevel>
</sdg:EvidenceProviderJurisdictionDetermination>

<!-- Determination of the EvidenceProviderClassification to the User's attributes. In this example the applicant must indicate if he has ever resided in the country.  -->
<sdg:EvidenceProviderClassification>
    <sdg:Identifier>b07146b6-1468-41a7-a10f-ee2a61429dbc</sdg:Identifier>
    <sdg:Type>Codelist</sdg:Type>
    <!-- Definition of the value expression. Must be published in the Semantic Repository. The codelist contains the values ApplicantHasNeverBeenResidentInGermany
      and ApplicantHasBeenResidentInGermany -->
    <sdg:ValueExpression>https://sr.oots.tech.europa.eu/ep-classification/de/countryresidence</sdg:ValueExpression>
    <sdg:Description lang="EN">Rules of responsibility for the processing of personal status cases of German citizens without residence information
    </sdg:Description>
    <sdg:Description lang="DE">Zuständigkeitsregelungen für die Bearbeitung von personenstandsrechtlichen Vorgängen deutscher Staatsangehöriger ohne Wohnsitzinformation</s
</sdg:EvidenceProviderClassification>
            </sdg:DataServiceEvidenceType>
        </rim:SlotValue>
      </rim:Slot>
    </rim:RegistryObject>
</rim:RegistryObjectList>
```

Data Service Directory

Example of the Error Response

```xml
<query:QueryResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:4.0"
    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"
    status="urn:oasis:names:tc:ebxml-regrep:ResponseStatusType:Failure">
    <rs:Exception
        xsi:type="rs:ObjectNotFoundExceptionType"
        severity="urn:oasis:names:tc:ebxml-regrep:ErrorSeverityType:Error"
        message="No Data services were found based on the given parameters"
        code="DSD:ERR:0001">
    </rs:Exception>
</query:QueryResponse>
```

Data Service Directory

Error Response Codes

#	Error Title	Type	code	Message
1	Data Services Not Found	rs:ObjectNotFoundExceptionType	DSD:ERR:0001	No Data Services were found based on the given parameters
2	Evidence Type Not Found	rs:ObjectNotFoundExceptionType	DSD:ERR:0002	The Evidence Type requested cannot be found
3	Bad Query Parameters	rs:InvalidRequestExceptionType	DSD:ERR:0003	The query parameters do not follow the query specification
4	Unknown Query	rs:InvalidRequestExceptionType	DSD:ERR:0004	The requested Query does not exist
5	Additional Parameters Required	rs:ObjectNotFoundExceptionType	DSD:ERR:0005	The query requires the included extra attributes to be provided by the user
6	Incorrect Parameter Value	rs:InvalidRequestExceptionType	DSD:ERR:0006	Incorrect provided value for requested parameters

Q&A

OOTS Projectathon preparation

Marie-Laure Watrinet (DIGIT-EXT), Maarten Daniels (DIGIT-EXT)
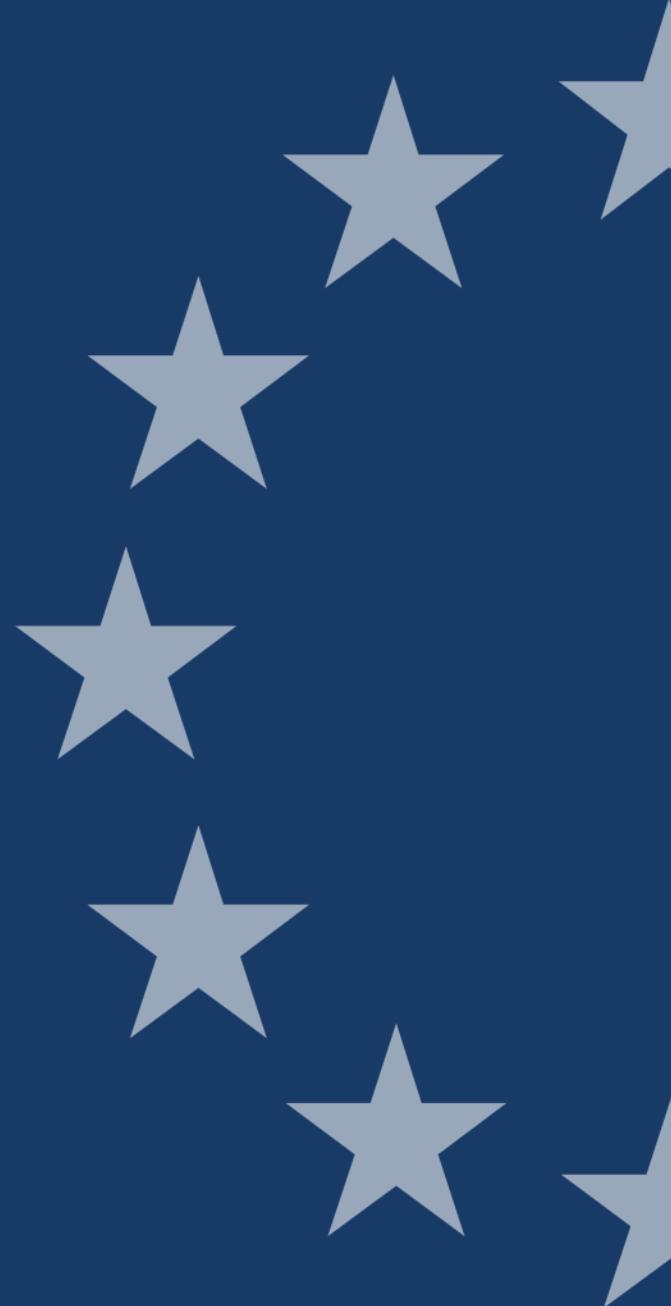
Projectathon: we are now in stage 2 – Registration

DECEMBER	FEBRUARY	MARCH	APRIL	MAY

1 Information

13 December 2022

Attend the **Projectathon Deep-Dive session** during the **OOTS Implementers Café** on 13 Dec 2022.

Signal your intention to participate to the April 2023 Projectathon as Members States (can be with multiple teams)

> **Implementers Café #2**
> "eDelivery & OOTS Projectathon Process"
> 13/12/2022

2 Registration

7th February – 3rd March 2023

1. Register for the event via the **EU survey** and provide your consent to the Projectathon personal data privacy statement.

2. Register your organization , system under test (SUT), SUT operator(s) and features to be tested in **Gazelle**.

> **Implementers Café #4**
> "OOTS preview area & OOTS Projectathon Preparation"
> 21/02/2023

> **Implementers Café #3**
> "eID & OOTS Projectathon Registration"
> 31/01/2023

3 Pre-projectathon test

> **Projectathon Kick-off session with all participants**
> Hybrid event on 14 March together with GCG meeting

15 March – 14 April 2023

Perform **Preparatory Test** to get your system, test data and yourself ready before Projectathon.

3 - 14 April 2023

Perform **Connectivity Test** to ensure network connection of SUTs are well configured before Projectathon.

> **Q&A session for Participants before the Projectathon**
> 12/04/2023

4 Projectathon

> 19-21 APRIL 2023

Game on!

Connect and perform Peer-to-Peer marathon test!

5 Post Projectathon

5 May 2023

Publication of **Test Reports**, lessons learned and best practices

> **Implementers Café #5**
> "Common Services Admin App & Projectathon Debrief (April event) and Preparation (June event)"
> 05/05/2023

Projectathon registrations

- Registrations are open and several Members State already registered one or more team members (32 registrations on 20/02)
- In case you did not yet pre-register, you can do so by mailing EC-OOTS-SUPPORT@ec.europa.eu or via https://ec.europa.eu/eusurvey/runner/OOTSProjectathon_pre_registration_042023
  - Following this action, you will get an invitation mail with the necessary steps to complete as part of the actual registration
- Be sure to consult the OOTS Projectathon Playbook version 1.0 as well for preparation and participation details
- All participants should join the Projectathon Kick-off session, a **hybrid** event taking place on **14/03** after the Gateway Coordination Group meeting
  - Here we will explain the **pre-event** Preparatory Tests and Connectivity Tests
  - Be reminded that all SUTs need to be **available online on the public internet** with a **stable IP** between/during the Connectivity Tests and the actual event.

Projectathon registrations - tips

- Please check your spam folder for registration mails (for invitation mail, also for mail to register to the EU Survey and to register to Gazelle)

- About Gazelle registration:
  - Every participant that has an account in Gazelle should already be registered via the EU Survey
  - When creating an organisation in Gazelle, the organisation keyword should include the country code (for instance: FR_KEREVAL)

Microsoft Teams Implementers Space

- A Microsoft Teams Implementers Space is available to facilitate preparation of and participation to the Projectathons
- Access to it can be requested via selecting the relevant item in the **Service Desk**

Projectathon preparation: test case flows

- Last meeting [M10](#) we continued the test scenario discussion

- Version 0.7 is available in the [T&D Document Repository](#)

- Germany commented that their prototypes are built around Legal Persons. This results in 2 tracks we suggested and can further explore

  - Firstly, the current natural person test cases only require static data, meaning that all supporting data (identity data, evidence related data in EB, EP data in DSD) is preconfigured at both sides based on the test configuration package to be provided. As a result, you don't need to integrate real base registries for the moment, but can test the OOTS flows using statically configured data.

  - Secondly, if you prefer that we anyway add test scenarios that cover legal persons and if there are other Member States that can support these scenarios as well (so we have sufficient test partners for these cases), then we still want to discuss these scenarios more into detail with you and the relevant other Member States with the goal to analyse whether we can still add them to the April Projectathon.

    - In case this second option is chosen, then the sub-question becomes whether, for the April Projectathon, we should decide whether to:

      - Create test data variants for legal persons while keeping the existing test cases, functionality and interfaces
      - Create additional test cases that cover legal person-specific features

Projectathon preparation: component updates

- Which components should be tested in the first Projectathon?

  - **Common Service client: EB requests, DSD requests, DSD conversations**

  - **eDelivery Access Point**

    - **In case you do not yet have an Access Point up and running, [contact us](#) so we can still repeat (e.g. in March) the sample Access Point hands-on session that was held on 26/01/23**

  - **Data Service**

  - **Preview Space**

  - ID Requester: notified eID (at ER side) and/or other EP accepted identification scheme (at EP side)

  - Common Service LCM client?

  - Country specific Common Service server? EB or DSD?

Test data sets

- We are checking what is the data set needed to cover the April Projectathon

    - We start from the basis provided by the EM SG

    - We, across the relevant SGs complement it with test data to cover the mandatory data fields and to enable a basic evidence flow

    - We gradually enrich and enhance the data to enable increasingly more complex test cases

        - This effort provides value to and requires input from all SGs

        - This effort does not stop at the first Projectathon and continues to evolve as we prepare for upcoming Projectathons and get closer to the Go Live of the OOTS

Q&A
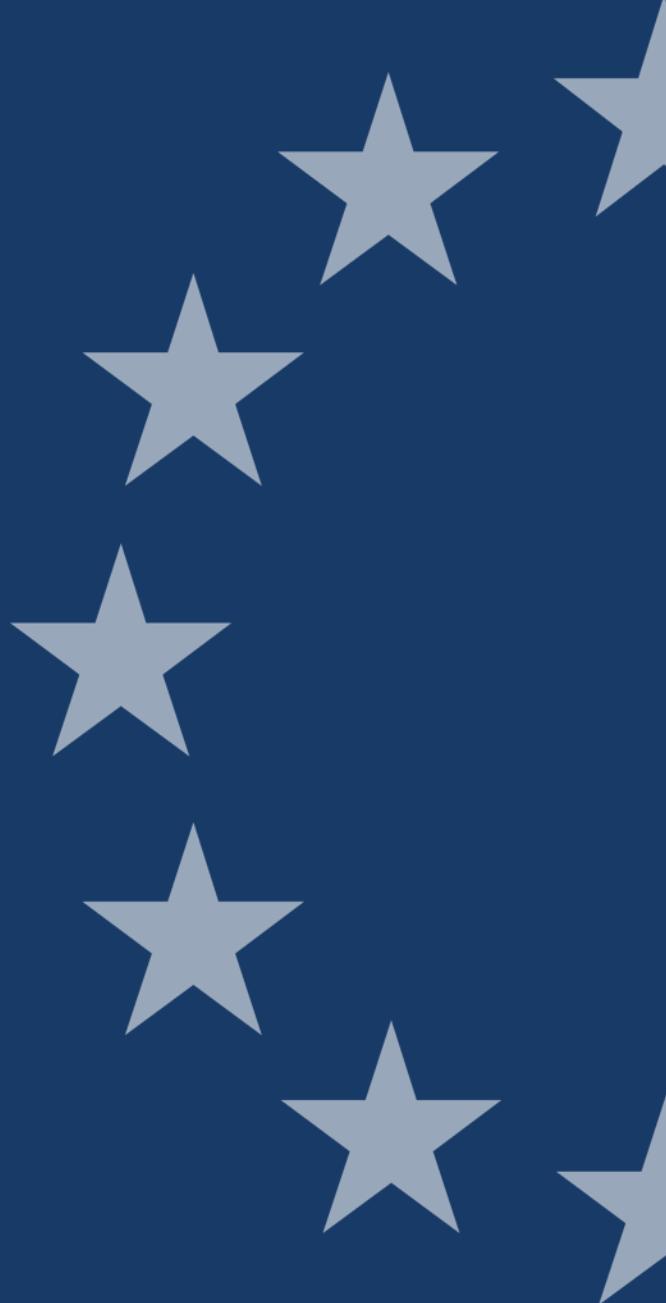
Next steps

1. Complete the <u>satisfaction survey</u> for this meeting (it really does help).

2. Sign-up to the <u>OOTS Projectathon Collaborative Space</u> (introduce yourself in the "Forum" function) and access useful materials and MS Teams.

3. We invite all Projectathon participants to join us for the <u>Projectathon Kick-Off Meeting on 14/03/2023</u> (*for Projectathon participants*).

4. Join us for the **#5 Implementers' Café in May 2023**. You will receive an email with the session's topics and how to register.

Further questions?

We're here for you at
EC-OOTS@ec.europa.eu