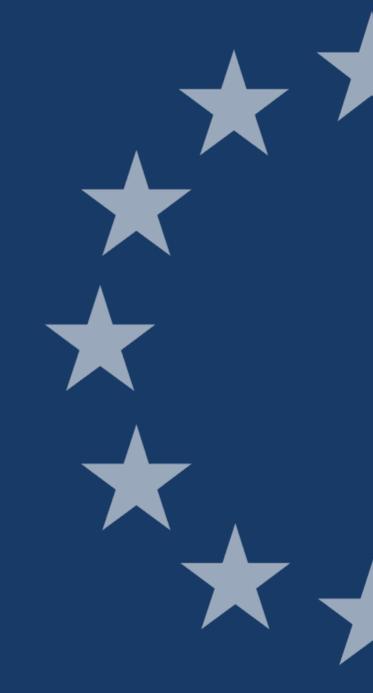
A guide for teams across the EU working on implementing the Once-Only Principle



Who is this guidance for?

- 1. Teams responsible for the online public procedures in scope of the SDGR* (*see next slide*) that need to make updates to those procedures to enable the once-only steps of the user journey.
- 2. This guidance is also for teams responsible for the systems that will provide the evidence citizens and businesses need to complete these online procedures (via automated exchange thanks to the Once-Only Principle).



Table of contents

What does this guidance cover?

- A basic introduction to once-only
- A clickable prototype of the baseline to-be user experience
- High-level once-only requirements
- The high-level architectural design of the system
- A step by step walk through of once-only, with:



Introduction to the Once-Only Principle



The Once-Only Principle, reducing administrative burden for citizens and businesses.

From 2023, the Once-Only Principle will allow public administrations in Europe to reuse, or share, citizens' and businesses' data/documents upon request, in a transparent and secure way.

This means citizens (whether representing themselves or a business) won't have to find and upload data/documents themselves every time they do an online procedure.

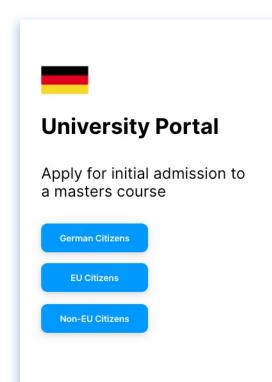


Once-Only means users can request for docs/data to be retrieved from other Member States (MS) to complete online procedures in other MS









Click through the User Experience →



8 key requirements of the once-only system

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HTP	1en	tica	ate

User can authenticate with an eIDAS eID

2 Locate evidence

Portal can locate the evidence provider

3 User Request

User can request their document(s)/data

4 Evidence Request

Request for evidence is sent to the evidence provider

5 ID Matching

Evidence provider can locate the user's evidence

6 Evidence response

Evidence provider return the evidence

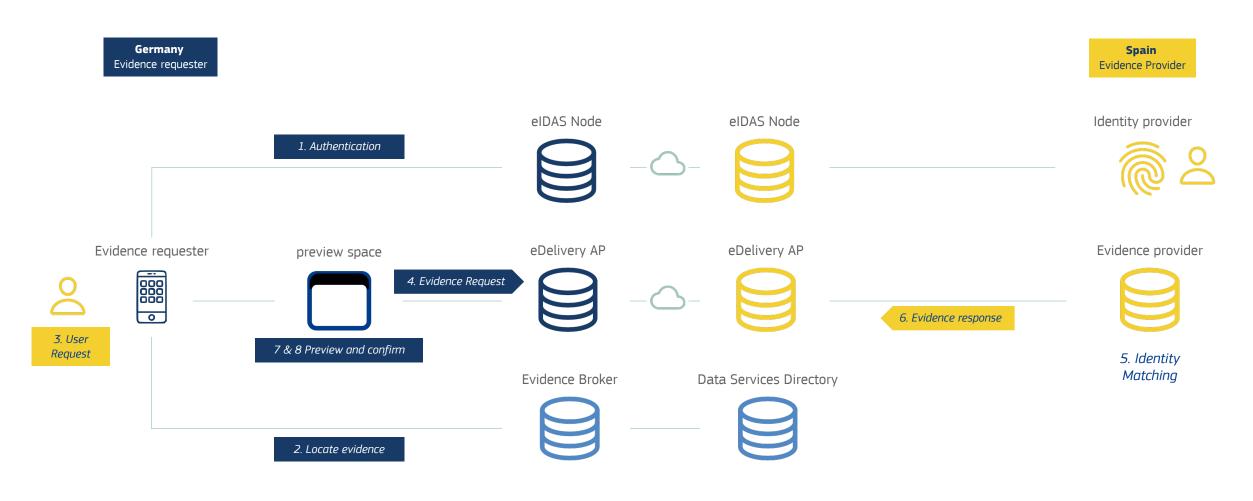
7 Preview

User can preview the evidence in separate space

8 Confirm

User can confirm if they want to use the evidence

Architectural design of the once-only system



EC Common Services

A screen-by-screen walkthrough of OOP



Key Once-Only steps

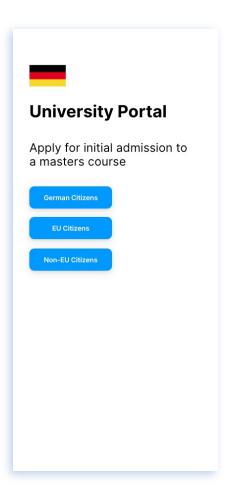
Authenticate Locate evidence User request Evidence request ID Matching Evidence response Preview Confirm

1 Authenticate

Users must have an eIDAS enabled eID to exchange data or documents automatically through the OOP system

Add a page to filter users' pre-authentication

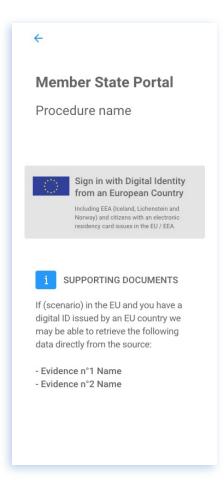
If designers are concerned that adding content for foreign nationals might diminish the experience for national users, consider adding a filter page so that you can tailor the following steps specifically to different user segments.



Explain the Once-Only Principle to users' pre-authentication

Users may not start an online procedure if they don't think they have the document they need to complete it so inform users that your service may be available to retrieve evidence for them using the Once-Only Principle.

At this stage, users should also be made aware that evidence can only be retrieved if they authenticate with an elD.



User selects country that issued eID

To start the authentication process, users must select the country that issued their eID so the procedure portal in MS A can re-direct them to their national authentication page in MS B.

Only countries with notified eID schemes will appear in the list. Learn about the <u>status of national eID schemes</u>.



Portal redirects users to eIDAS node

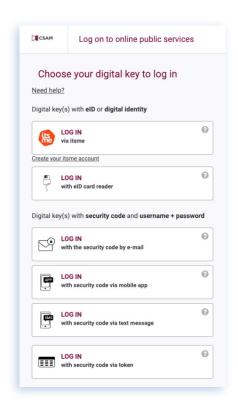
To retrieve this URL, the procedure portal service needs to send a request to its national eIDAS node in MS A, which will then forward the request to the eIDAS node in MS B and return its response (the correct URL) to the portal.



Identity provider selector

Users are re-directed to their national authentication sites where they may be more than one way they can authenticate themselves. If mobile authentication is not available, they'll have to stop and restart the process on another device.

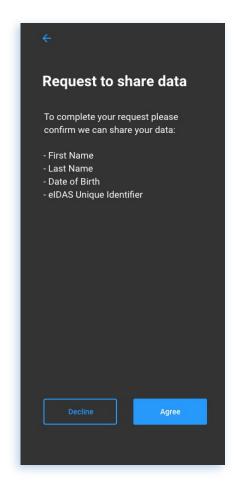
If they've never used their eID before, they'll need to enroll with a specific eID provider to activate it. This can sometimes require a laptop and card-reader, or other means.



Authenticating with their identity provider

Users are redirected to their identity provider in MS B.

Once they have authenticated, they will be asked to consent to share their identity attributes with the portal in MS B to complete the authentication process. The user is then redirected back to the procedure portal.

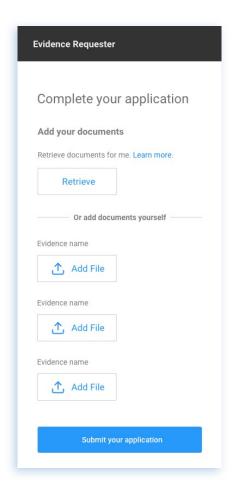


2 Locate evidence

The procedure portal must identify what to ask for (*evidence type*), and who to ask it from (*evidence provider*).

Choose to use Once-Only

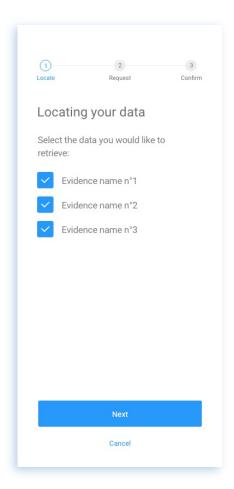
Using the Once-Only technical system is not obligatory – users can still choose to upload the required documents and data manually or choose to retrieve evidence through the Once-Only technical system.



Selecting evidence for retrieval via OOP

The user needs to specify which evidence they would like the procedure portal to find for them. This does not necessarily guarantee successful retrieval, but it initiates the search.

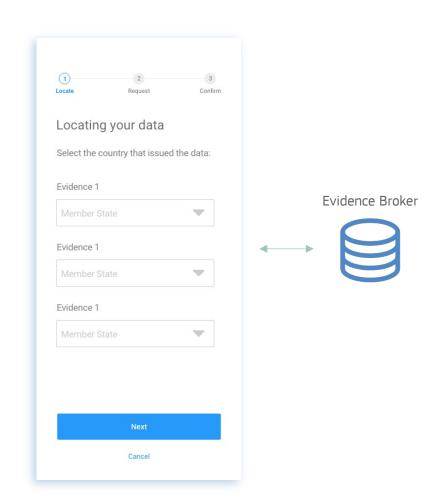
With further user input, the procedure portal will find the equivalent of these evidences in the country where the evidence is located.



Select the MS holding the evidence

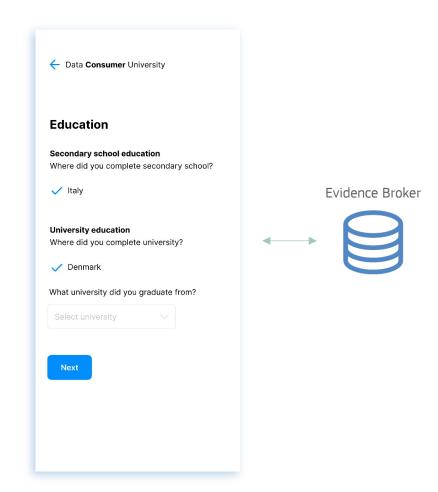
The user needs to input the MS where their evidence is located. For example, if they need proof of birth, they will say where they were born (MS B). If they need proof of higher education, they will say where they studied (this may be a third country, MS C).

The procedure portal in MS A then sends a query to the **Evidence Broker** to determine the evidence type in MS B and/or C.



More user input needed for Evidence Broker

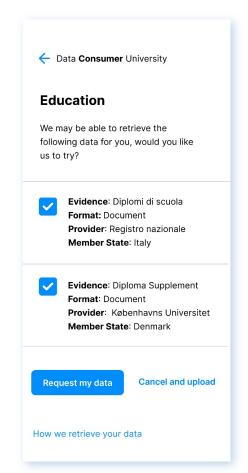
Sometimes, the type of evidence used isn't the same throughout a whole country. For example, different regions might use a different type of document to prove somebody's marital status. In these cases, the user will be asked for more input, such as the region, city, post code, etc.



Locating the evidence provider

To find out where to send the request for evidence the portal sends a query to the **Data Services Directory** with the evidence type (provided by the Evidence Broker) and Member State (plus any additional user given at the Evidence Broker stage).

If the evidence type is stored centrally in the Member State in question, the DSD returns the name of the evidence provider. Extra input may be required from the user if there are multiple providers of one evidence type in the evidence provider MS.



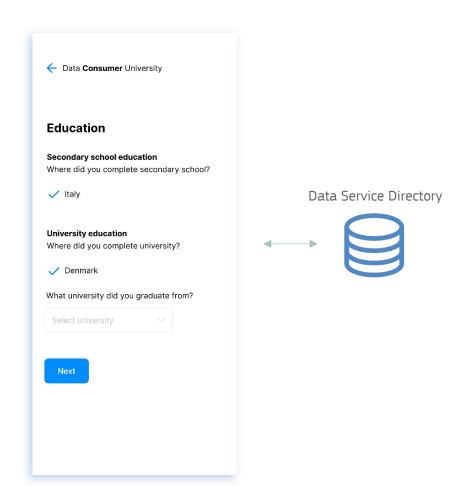
Data Service Directory



More user input to identify evidence provider

If the Data Service Directory returns a list of potential evidence providers for an evidence type, depending on the length of this list the user will have:

- Relatively short list: the user selects the relevant evidence provider (e.g., from a dropdown list)
- Long list: based on the metadata in the DSD's list, the user is asked for more input to narrow down the list so they can then select from a shorter list in a dropdown menu

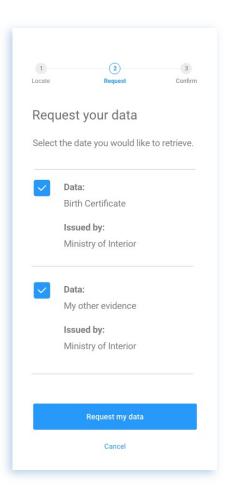


3 User Request

The user explicitly requests the portal to retrieve their evidence from another MS

User request for evidence retrieval

The portal now knows what evidence to request and who to request it from. But the user still needs to explicitly request for the portal to do this. Once the portal has collected and logged the explicit request of the user the portal will then send the request for evidence to the relevant evidence provider.



4 Evidence request

The request for evidence is sent to the evidence provider

Sending the request for evidence

The request for evidence is sent via an eDelivery message exchange network. This request contains the requested evidence type and the eIDAS attributes of the user.



Request

5 ID Matching

The evidence provider locates the evidence in their MS

Identity Matching

Evidence providers locate evidence based on request containing

- Minimum
 - Certificate of evidence requester
 - User's minimum eIDAS attributes
 - First Name
 - Last Name
 - DOB
 - Request for evidence
- Potentially (in cases where record matching was needed)
 - Additional eIDAS attributes
 - Additional attributes requested from the user



6 Evidence response

The evidence provider responds to the evidence request

Sending the response for evidence

The response for evidence is sent via an eDelivery message exchange network to the preview space.

Evidence requester

Preview space

eDelivery AP

eDelivery AP

Evidence provider

Response

User Request

7 Preview

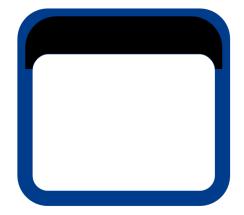
The user can check the evidence before they decide to use it

Minimum requirements for the implementation of the Preview Space

- 1. Clerks cannot access the data in the preview space
- 2. It must be a separate logical component to the procedure portal
- 3. It must have its separate storage to the procedure portal
- 4. It must have a separate data retention period

Two alternatives for the implementation of the preview space are described on the next page.

Preview space



Alternative 1: Delegate all the key once-only steps to the Preview Space

Delegate all the key once-only steps to the Preview Space. This would mean redirecting the user to the the Preview Space when they choose to retrieve evidence using the OOP. The Preview Space would then be responsible for all the requirements in bold below. The evidence would be transferred to the procedure portal when after the user has previewed and confirmed the use of the evidence

Authenticate Locate evidence User request Evidence Request ID Matching Evidence response Preview Confirm

Alternative 2: A Preview Space with only the minimum requirements

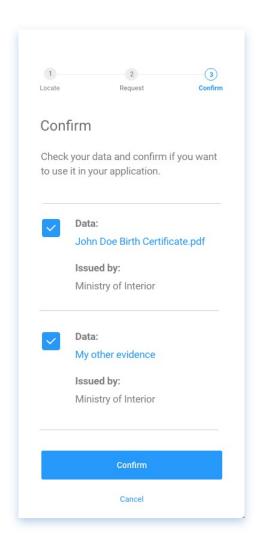
The user would preview the evidence and confirm the use of the evidence in the preview space before it is transferred to the procedure portal. The required functionality for all other steps would remain with the procedure portal, including interactions with the common services, the request for evidence and receiving the response. The procedure portal would have to be configured to ensure that it transfers the evidence to the preview space on reception from the evidence provider.

Authenticate Locate evidence User request Evidence Request ID Matching Evidence response Preview Confirm

The preview space

The evidence provider does not send the requested evidence to the portal directly – it is sent to a dedicated Once-Only preview space. The user can preview it before deciding to use it in the procedure.

Nobody but the user can see the evidence at this stage. The preview space is separate from the procedure portal and has its own storage and retention period compliant with relevant data protection regulation (i.e., GDPR).



User check

By previewing evidence, the user can check that the evidence is what they asked for and that it doesn't contain any errors. If the user cancels the evidence exchange at this stage the retrieved evidence is immediately deleted from the OOP preview space. The user can still choose to upload their own data manually.

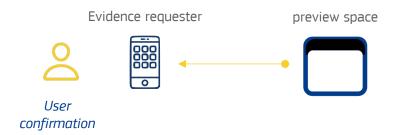


8 Confirm

If the user is happy with the retrieved evidence, they confirm they want to use it in the procedure.

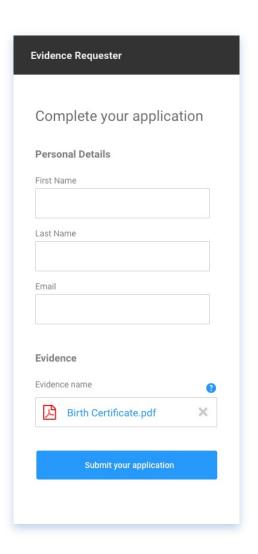
Confirming use of evidence in procedure

If the user is happy with the retrieved evidence after previewing it, they confirm they want to use it in the procedure. It is now uploaded from the OOP preview space to the procedure portal. The portal logs the user's confirmation to use the evidence and the user returns to the original procedure portal.



Completing the procedure

The user's evidence has now been exchanged through the OOP system. They return to the procedure portal and, perhaps after inputting some more information manually, they can complete the procedure.



Receiving confirmation

After submitting the procedure, it is good practice to send the user a confirmation message. This lets them know roughly when they can expect to hear the outcome of the procedure, and the details of a helpdesk they can contact if they have questions.

Initial application complete

We will be in touch when we have processed your application.

End.