



Once-Only Technical System June Projectathon Kick-Off Meeting

This Kick-Off session provides participants (and observers) with a clear understanding of how to prepare for, and participate in, the second OOTS Projectathon.

24 May 2023, 10:00-12:30

European Commission

DG GROW

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

DIGIT

Directorate-General
for Informatics



Agenda

10:00-10:20 Overview of the Projectathon – *Marie-Laure Watrinet*

1. What to do and what to expect – the agenda, the location and practical info
2. The teams/actors in a Projectathon
3. Focus on participants and observers

10:20-11:20 How to participate in the OOTS Projectathon – *Maarten Daniels*

1. Pre-Projectathon Test(s)
2. Test levels
3. Test data
4. Lessons learned and best practices from first Projectathon

11:20-11:40 How to do pre-testing in Gazelle – *Marie-Laure Watrinet*

Information points (Projectathon social event, Ombudsman Award) – *Michael Ulrich*

11:40-12:10 Roundtable discussion on the status in each Member State actively participating in the event – *animated by Maarten Daniels and Marie-Laure Watrinet*

12:10-12:30 Q&A / discussion – *animated by Michael Ulrich*

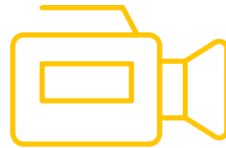
Instructions for this live webinar:

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

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



Click “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.*



Overview of the Projectathon

Marie-Laure Watrinet



Projectathon Overview (participant) – June Projectathon – tentative dates

MAY

JUNE

1 Information

05 May 2023

Attend the **Projectathon Deep-Dive session** during the **OOTS Implementers Café** on 05 May 2023.

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

Implementers Café #5

"Common Services Admin App & Projectathon Debrief (April event) and Preparation (June event)"
05/05/2023

2 Registration

8 – 23 May 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**.

3 Pre-projectathon test

Projectathon Kick-off session with all participants
Remote event on 24 May

25 May – 9 June 2023

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

29 May - 9 June 2023

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

4 Projectathon

14-16 June 2023

Game on!

Connect and perform Peer-to-Peer marathon test!

5 Post Projectathon

29 June 2023

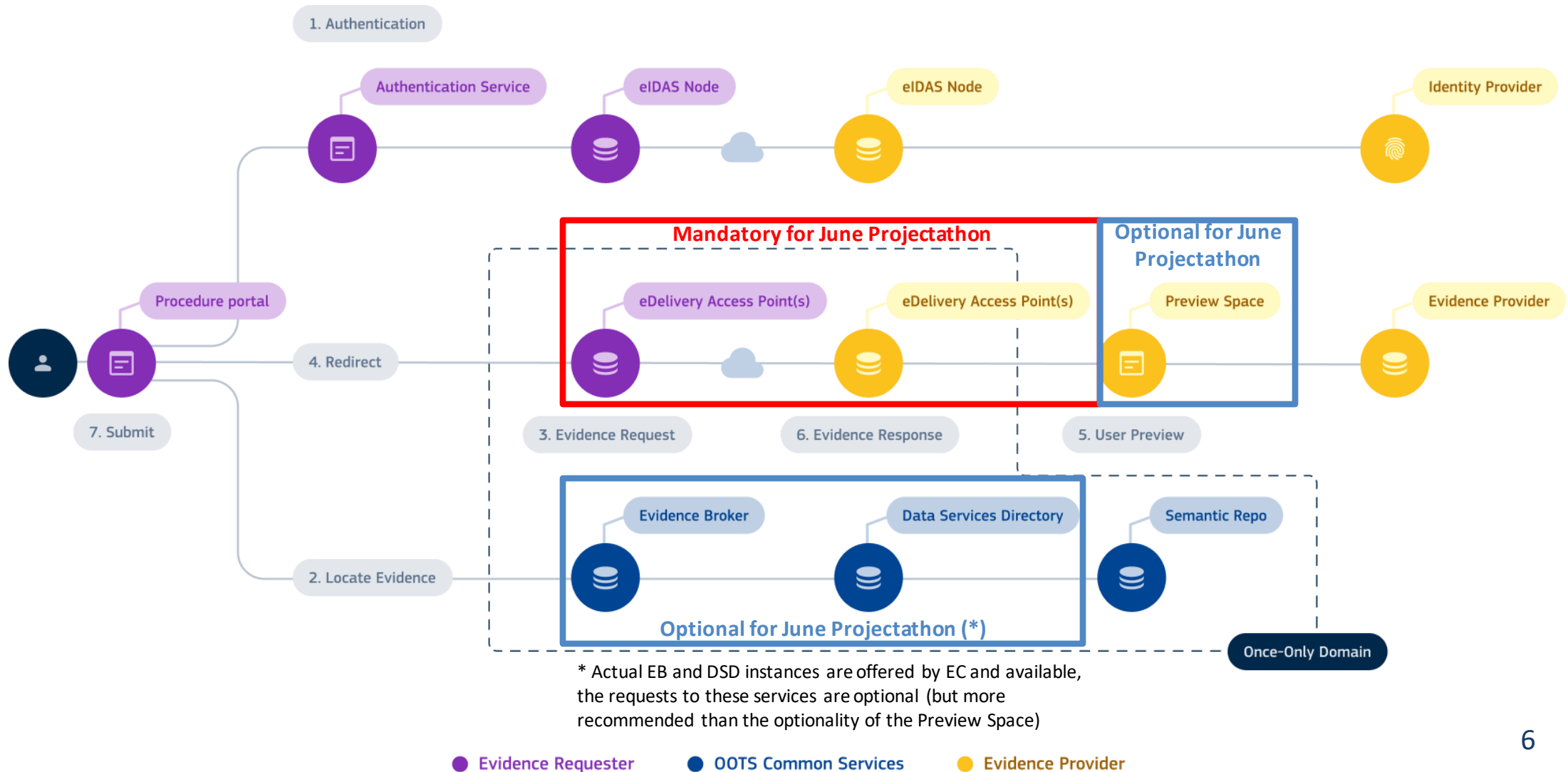
Publication of **Test Reports**, lessons learned and best practices

Implementers Café #6

"Common Services Admin App & Projectathon Debrief (June event) and Preparation (October event)"
29/06/2023


































Minimum requirements for the June Projectathon



Current participation in June Projectathon

Update of the Member States attending the June Projectathon those 3 days:

	14-16 June Projectathon				
Status	Participant		Observer	Unsure	No participation
Number of Member States	18 Member States		5 Member States	3 Member States 1 EEA Member State	1 Member State
	<div>On-site</div> <div></div> <div>Remote</div> <div></div>	<div>On-site</div> <div></div> <div>Remote</div> <div></div>	<div></div> <div></div>	<div></div>	

What to do and what to expect – the agenda, the location and practical info

See also the June Projectathon page:

<https://ec.europa.eu/digital-building-blocks/wikis/display/OOTS/Projectathon2>



Agenda – day 1

08:00 - 09:00	Welcome coffee & registration CCAB - room 2.D
09:00 - 09:45	Introduction to the Once-Only Technical System Projectathon (day 1) Plenary
09:45 - 10:15	Welcome to the Once-Only Technical System Projectathon (keynote speeches) Plenary
10:15 - 12:00	Technical set-up and initial tests Plenary
12:00 - 13:00	Lunch CCAB - room 2.D
13:00 - 15:00	Peer-to-peer testing - Part 1 Plenary
15:00 - 15:30	Coffee break CCAB - room 2.D
15:00 - 17:00	Peer-to-peer testing - Part 2 Plenary
17:00 - 17:20	Wrap-up of the day + intro to next day Plenary
17:30 +	Informal dinner TBC

Agenda – day 2

08:30 - 09:00	Welcome coffee CCAB - room 2.D
09:00 - 09:45	Introduction to the Once-Only Technical System Projectathon (day 2) Plenary
09:45 - 12:00	Peer-to-peer testing - Part 1 Plenary
12:00 - 13:00	Lunch CCAB - room 2.D
13:00 - 15:00	Peer-to-peer testing - Part 2 Plenary
15:00 - 15:30	Coffe break CCAB - room 2.D
15:00 - 17:00	Peer-to-peer testing - Part 3 Plenary
17:00 - 17:20	Wrap-up of the day + intro to next day Plenary
17:20 - 17:30	Closing of day 2 Plenary
18:30+	Informal drinks TBC

Exploration rooms

– day 2

10:00 - 16:00

UX key patterns

Rooms 304 & 305

This session will provide in-depth information on the user-centricity of the Once-Only Technical System. To complete a procedure using the Once-Only Technical System, citizens will interact with screens provided by multiple authorities in different Member States. The objective of this collaborative workshop will be to build a comprehensive map of the different OOTS user flows. The map build in the work happening in the OOTS UX Lab and will service to support Member States in their implementation.

10:00 - 12:00

LCM updates to the Common Services

Room 310

This session will provide information on how the LCM interface will be used by the Member States to update the MS data of the EB and DSD. During the session, participants will see a demo of how the LCM exchange works and are expected to also demonstrate their implementation where applicable.

13:00 - 15:00

eID exploration and integration

Room 310

This session will provide information on the reuse of eIDAS eID by the Once-Only Technical System. eID allows European citizens to use their national eIDs when accessing online services from other European countries.

Agenda – day 3

08:30 - 09:00	Welcome coffee CCAB - room 2.D
09:00 - 09:45	Introduction to the Once-Only Technical System Projectathon (day 3) Plenary
09:45 - 12:00	Peer-to-peer testing - Part 1 Plenary
12:00 - 13:00	Lunch CCAB - room 2.D
13:00 - 14:00	State of play of June Projection & introduction to October Projectathon Plenary
14:00 - 14:30	Coffee break CCAB - room 2.D
14:30 - 14:45	Policy update Plenary
14:45 - 16:00	Peer-to-peer testing - Part 2 Plenary
16:00 - 17:30	Extra testing time (optional)
17:30	End

Exploration rooms

– day 3

10:00 - 12:00

UX key patterns

Rooms 304 & 305

This session will provide in-depth information on the user-centricity of the Once-Only Technical System. To complete a procedure using the Once-Only Technical System, citizens will interact with screens provided by multiple authorities in different Member States. The objective of this collaborative workshop will be to build a comprehensive map of the different OOTS user flows. The map build in the work happening in the OOTS UX Lab and will service to support Member States in their implementation.

10:00 - 11:00

Once-Only Technical System and related systems

Room 310

This session will explore OOTS-related systems. Article 14 of the Single Digital Gateway Regulation and the related Implementing Regulation create the legal basis for the Once-Only Technical System. Recital 6 of the Implementing Regulation states that the Once-Only Technical System should build on the work already done and exploit synergies with other existing systems for the exchange of evidence or information among authorities relevant for the procedures referred to in the SDG regulation.

11:00 - 12:00

Operational Governance

Room 310

This session will provide information on the definition of operational modalities for the Once-Only domain, specifically concerning the development of the OOTS Common Services and eDelivery Access Points.

The June Projectathon location

- Conference Centre Albert Borchette (CCAB), Rue Froissart 36, 1040 Brussels, Belgium
 - Main Projectathon rooms will be 2.D and 2.C
 - Exploration rooms will be 3.04, 3.05 and 3.10
 - Don't forget to reserve half an hour when arriving in the morning, just in case for the security
- Seating plan:
 - There will be also a seating plan for the June projectathon, as we had for the April Projectathon. As discussed, you will be divided in the 2 rooms on the 2nd floor
 - The seating plan will be shared with you later on
 - Break-out rooms can be made available (during certain timeslots) on-site to facilitate ad-hoc discussions related to the development and testing of OOTS components

Practical info: what is the estimated time required for each activity in the different phases of the Projectathon?

Registration	<p>About one person-day* which includes:</p> <ul style="list-style-type: none">• Attending the Projectathon registration Webinar (+-one hour).• Defining the features to be tested - Registration in Gazelle.• Administration and contract signing.• Travel and accommodation booking (to be done by each team separately).
Pre-Projectathon	<p>Preparatory Tests take around 10 person-days*. It highly depends on the test features and the complexity of the System Under Test.</p> <p>Gazelle is open for Preparatory Test from 25 May to 9 June 2023. You can perform the Preparatory Test anytime during this period.</p> <p>Connectivity Test (for onsite/online/hybrid participants a that are operating a System Under Test) take about 1 person-day*.</p> <p>Gazelle is open for Connectivity Test from 29 May to 9 June 2023. You can perform the Connectivity Test anytime during this period.</p>
Projectathon days	<p>Onsite participant: Projectathon events (three person-days*) + min one person-day* for the travel (round-trip), hotel check-in/checkout.</p> <p>Online/Hybrid participant: Projectathon events (three person-days*)</p>

Practical info: what about Material?

Materials to prepare by the MS for the Projectathon

- Comfortable outfit: Wear comfortable shoes and clothes.
- Laptop and device (screen, etc.) needed to: Operate and debug the SUT; Communicate with your remote team and with other remote participants.
- All Systems Under Test (SUTs) are expected to be available online and capable to make/receive connections to/from other SUTs.
- Make sure you have the administrator rights on your machine and know how to disable/configure VPN and firewall.
- International power adaptor (unless you use equipment that can fit in standard Belgian power sockets).
- Earphone with microphone (headset) for online communication purposes.

Materials provided by EC and facilities

- Connectivity will be made available to participants: outbound internet connection for all devices connected to DSL-like ports.
- Break-out rooms are made available on-site to facilitate ad-hoc discussions related to the development and testing of OOTS components.
- Reimbursement:
 - MS designate 1 private + 1 public on-site participant to be reimbursed
- Lunch, social events:
 - Lunch is provided and paid by EC (buffet) – eating outside is not reimbursed
 - About social events, EC will send an EU survey to know who will stay for them, and if there are any dietary requirements

The teams/actors in a Projectathon



Teams / actors in a Projectathon – EC side

Blue lanyards

- **Organiser Team:** overall responsibility for the Projectathon event. The Organiser Team hosts the event, defines the test scope, call for participants, and takes care of the logistics such as the event venue, network, and staff hiring. The Organiser Team also includes: exploration rooms experts, project officers from DIGIT and GROW, the communication team and the PMO team.

Blue lanyards

- **Test Session Manager:** coordinator between participants and the Organiser Team: she/he hosts the technical topics related to webinars, and assists participants during the registration, preparatory test and Projectathon. Furthermore, the Test Session Manager evaluates the systems based on the grading from the monitors and communicates the results of the test session to the organisers and participants.

Purple lanyards

- **Monitors:** support the participants during the execution of the tests. They grade the tests based on objective evidences and criteria. If needed, they proceed to the necessary clarifications of the specifications, the descriptions of the tests or the tools. They evaluate the test with the “Gazelle” platform test management tool and grade it as verified, partially verified, or failed.
The Monitor Team will include testing experts, as well as experts from eDelivery, Common services (CS), Specification, eID, as well as the Support team.

Blue lanyards

- **Test Module Designer:** expert in the domain. The test module designer defines and documents the test plan, test cases and maintains test data in the “Gazelle” platform test management tool.

Teams / actors in a Projectathon – MS side

Yellow lanyards

- **System Under Test (SUT) operator(s) - Active participants:** configure and connect their SUT to “Gazelle”. During the Projectathon event, the SUT operator(s) date(s) with available partners and execute(s) the peer-to-peer tests with them. SUT operators can be on-site or online. They can be coordinators having a direct line to the team working remotely and/or technical people.

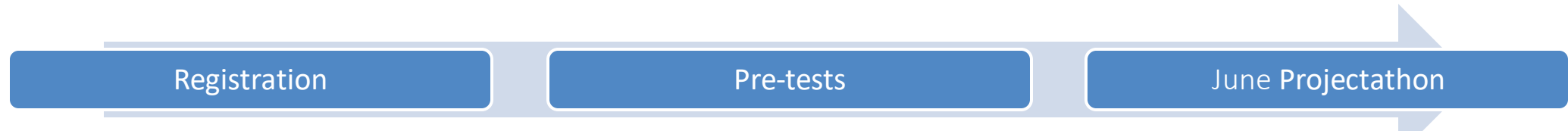
Dark blue lanyards

- **Observer:** observe and learn what a Projectathon is, how peer-to-peer tests are executed, to prepare themselves for the next Projectathon event. They observe the tests via screen-sharing or sit in pairs with the volunteering participants who are performing the test profile they are interested in.

Teams / actors in a Projectathon - Systems

- **“Gazelle” platform test management tool:** manages all the elements necessary for peer-to-peer interoperability tests. It offers a series of tools (validators and simulators) to verify the compliance of messages and documents with specifications or to test the interoperability of an application during a controlled test. This platform originated from the eHealth domain but can be reused in different contexts where peer-to-peer interoperability tests are relevant.
Some Gazelle support expert will also be present on-site.
- **Common Services:** acceptance environment of the Common Service (EB and DSD) instance that will go in production in December and that will be used as primary option for the Pre-Projectathon and Projectathon based Common Service testing.
- **Testing Services:** existing, component level testing services that are re-used as
 - Message/data validators during Pre-Projectathon testing and Projectathon testing
 - eDelivery AS4 test partner during Pre-Projectathon testing
 - Secondary option for the Pre-Projectathon and Projectathon based Common Service testing.

Activities of different actors within the timeline



Member States Yellow lanyards	Participant	Register via EU survey as Participant; read and agree acknowledgements, including Playbook Register Orga, users Register SUT capacities	Share SUT network and AS4 public cert. in Gazelle Perform the preparatory tests Perform the connectivity tests	Date with available partners in Gazelle Execute the peer-to-peer tests with them
	Dark blue lanyards Observer	Register via EU survey as Observer; read and agree acknowledgements, including Playbook		Observe the active participants
EC Blue lanyards	Organizer	Overall responsibility of the event Call for participants Take care of logistics	Overall responsibility of the event Take care of logistics	Overall responsibility of the event Take care of logistics
Blue lanyards	Test session manager	Assist participants in registration Verify SUT capacities with participants	Assist participants in pre-tests	Evaluate the systems based on the grading from the monitors and communicates the results
Purple lanyards	Monitor			Support participants during execution of tests Grade tests based on obj. evidences and criteria Evaluate the test with Gazelle and grade it as verified, partially verified or failed
Blue lanyards	Test module designer	Expert in the domain. Define and document test plan, test cases Maintain test data in Gazelle		
Gazelle	Platform	Orga, users and SUT capacities registered	SUT connected Pre-tests executed	Peer-to-peer tests completed Test results evaluated and graded

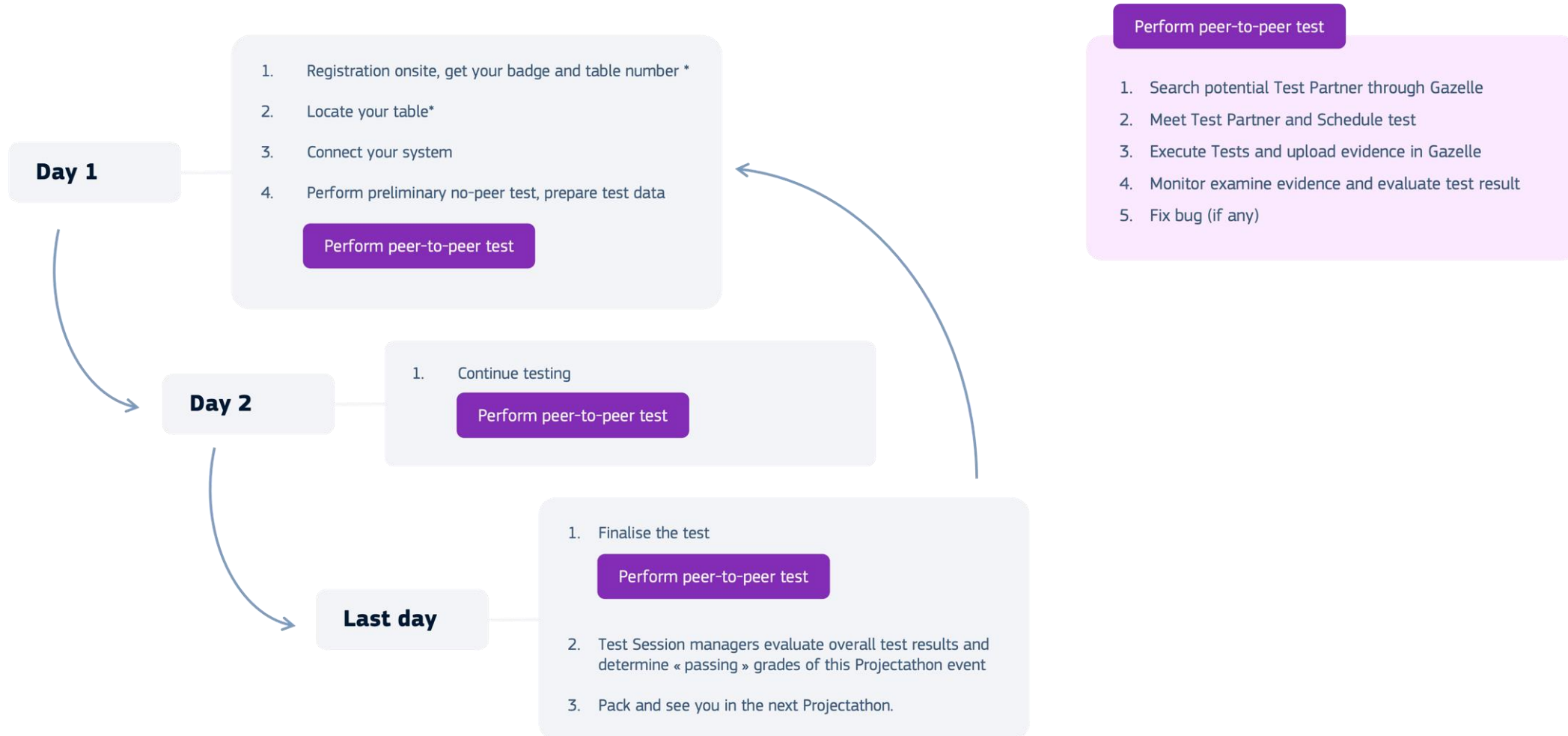
Focus on participants and observers



(active) Participant - What are the requirements for the System Under Test (SUT) operator(s)

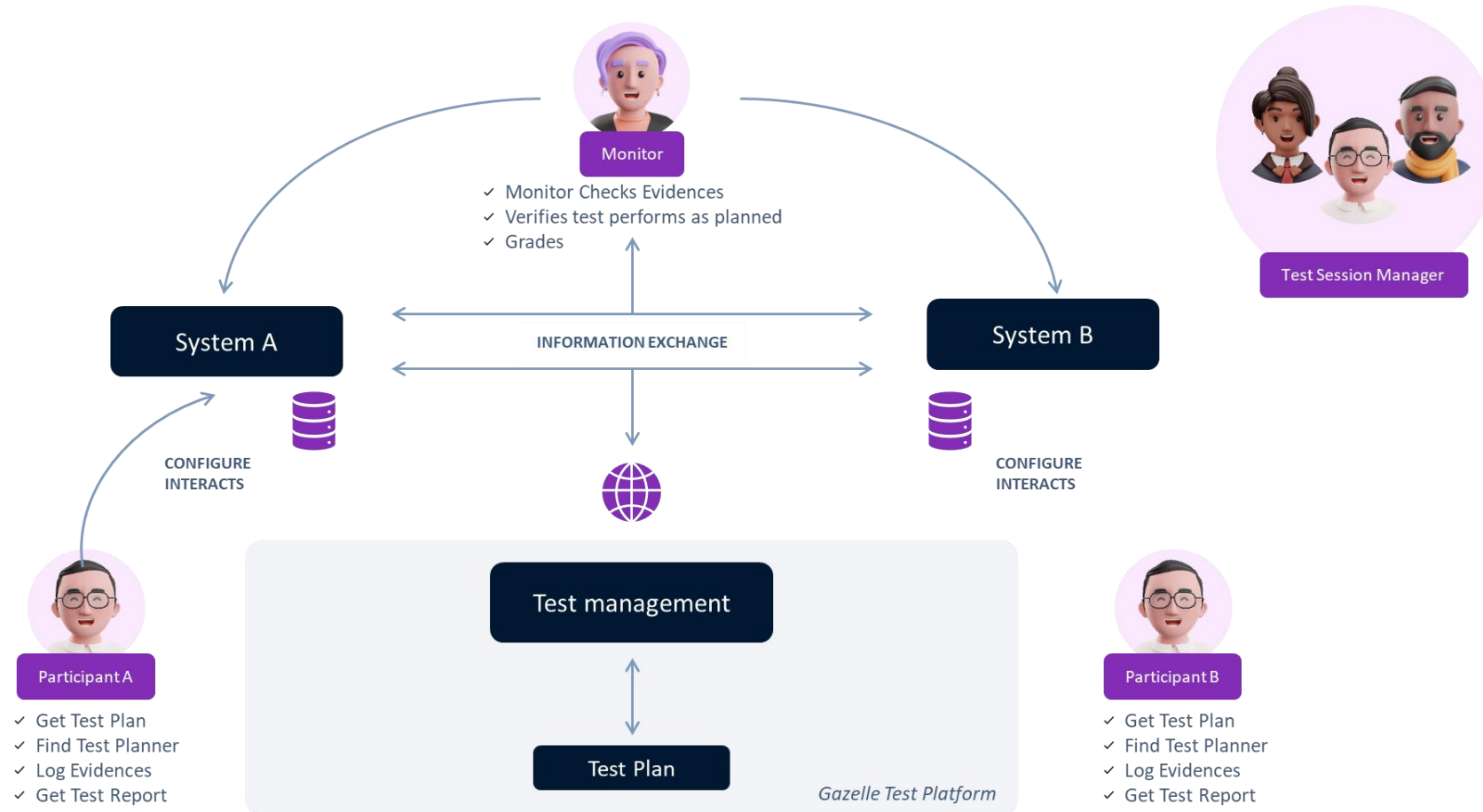
- It is recommended to be on-site or to have at least 1/2 operator on-site
- Generally, **at least two System Under Test (SUT) operators** are expected to participate for each SUT, you can send multiple teams if needed and you or your team are welcome to participate as observers.
 - Note that when a Member States team registers as participant, the full team will have “Participant” color lanyards. For Member States teams registering as “Observers”, the full team will have “Observers” color lanyards.
- The SUT operators should be **someone familiar with the SUT** in question and the features to be tested. You are allowed to fix the issue, recompile, and retest as many times as necessary. Therefore, being able to change the code is recommended (either directly or by having a development team (remotely) on call).
- The SUT operators should know **how or where to obtain the system’s logs for evidence sharing** purposes during the test execution. Alternatively, they can be supported by other SUT operator(s) with technical skills to perform these tasks.
- Ideally **at least one technical team member or developer** to provide technical support on your SUT or fix the bug.
- All Systems Under Test (SUTs) are expected to be available online and capable to make/receive connections to/from other SUTs. Your SUT should have been accepted in Gazelle.

Participant - Peer-to-peer testing



* For on-site participants only

Participant - Peer-to-peer testing



1. Participant A with System A and participant B with System B participate in the Projectathon.
2. Through Gazelle, participant A found a potential test partner: participant B with System B. Participant A approaches participant B to perform an interoperability test together.
3. Both agree and schedule a time to perform the interoperability test together.
4. The monitor examines the test, ensures it is performed correctly and verifies the test result with the help of log files and validators used.
5. The Test Session Manager announces the grading on the last day of the Projectathon.

Observers - projectathon tour

- If you participate as observers, it is highly recommended that you are on site.
- Take a tour of the Projectathon and engage with one or two participants to share and explain what they are doing.
- It can be done in groups or by screen sharing
 - It is important to provide an environment where the participants can concentrate on the tests/debugging and do not have too many disruptions. This means that observers should pay attention to not interfere at the wrong time.
 - In case some participants are hesitating to share their screen, please respect this as an observer.
- Engage in discussions in between test sessions or during breaks to understand what was done and what is needed to prepare your participation during the next event
- Member States who are more advanced in the Once-Only Technical System implementation and/or their experts are invited to share their knowledge, solution and technology used.
- Explanatory sessions have been created by the organisation team.

Microsoft Teams Implementers Space

- A Microsoft Teams Implementers Space is available to facilitate participation to the Projectathons
- Different Channels are available for communication:
 - OOTS Projectathon – General channel
 - OOTS Projectathon – Coffee room (all topics)
 - OOTS Projectathon – Participant teams info
 - OOTS Projectathon – Pre-Projectathon tests
- Don't hesitate to use it also to communicate with other MS, and try the one-to-one channel communication that is provided by Teams

How to participate in the OOTS Projectathon

Maarten Daniels



Upcoming Projectathons – general remarks

- The first Projectathon in April has been an opportunity for all parties to make mistakes, to **learn**, to **help each other** and to assess their current state of play regarding their OOTS developments.
- The second Projectathon in June **has similar objectives** and is still a **safe place** to make mistakes and to **boost your development progress**.
- Please [send us](#) your feedback about any issues or suggestions for improvements, both during the actual event and during the preparatory stages
- By sharing these items, we can all together make corrections and improvements before the upcoming Projectathon in October (which most likely will be focusing more on assessing production readiness)
- Discussions can be facilitated at any point in time between now and the June or October Projectathon

Pre-Projectathon Test(s)



Recap of Projectathon tests - overview

- The June 2023 Projectathon will be based on the [Q1 2023 release](#) of the Once-Only Technical Design Documents as amended with any corrections from the [errata list](#).
 - We have a pending request to the TDD team to provide a Projectathon snapshot/release/working version
 - This request is expected to be handled this Friday, if approved, the test cases and services can be pointed to the Projectathon version
- For this event, the test cases prepared for the April 2023 Projectathon are largely taken over as it still reflects the main plans of the Member States. It consists of the following elements:
 - 5 Evidence Exchange scenarios without preview
 - 5 Evidence Exchange scenarios with preview
 - 2 Maintenance flow scenarios (Common Service updates)
- These test scenarios are further detailed in Gazelle and are the ones that will be executed in peer-to-peer testing mode during the actual Projectathon event

Recap of Projectathon tests – list (1)

- 5 Evidence Exchange scenarios without preview
 - TC01: Basic evidence request without preview
 - TC02: Basic evidence request without evidence match
 - TC03: Evidence request error flow due to Base Registry error
 - TC04: Evidence request error flow due to Access Point error
 - TC05: Evidence request, with an additional DSD conversation, without preview

Recap of Projectathon tests – list (2)

- 5 Evidence Exchange scenarios with preview
 - TC06: Basic evidence request with preview and reauthentication
 - TC07: Evidence request with preview and reauthentication at two different Evidence Providers
 - TC08: Evidence request with preview rejection by user and reauthentication
 - TC09: Evidence request with preview error (closure or timeout) and reauthentication
 - TC10: Evidence request with preview (including human readable transformation) and reauthentication

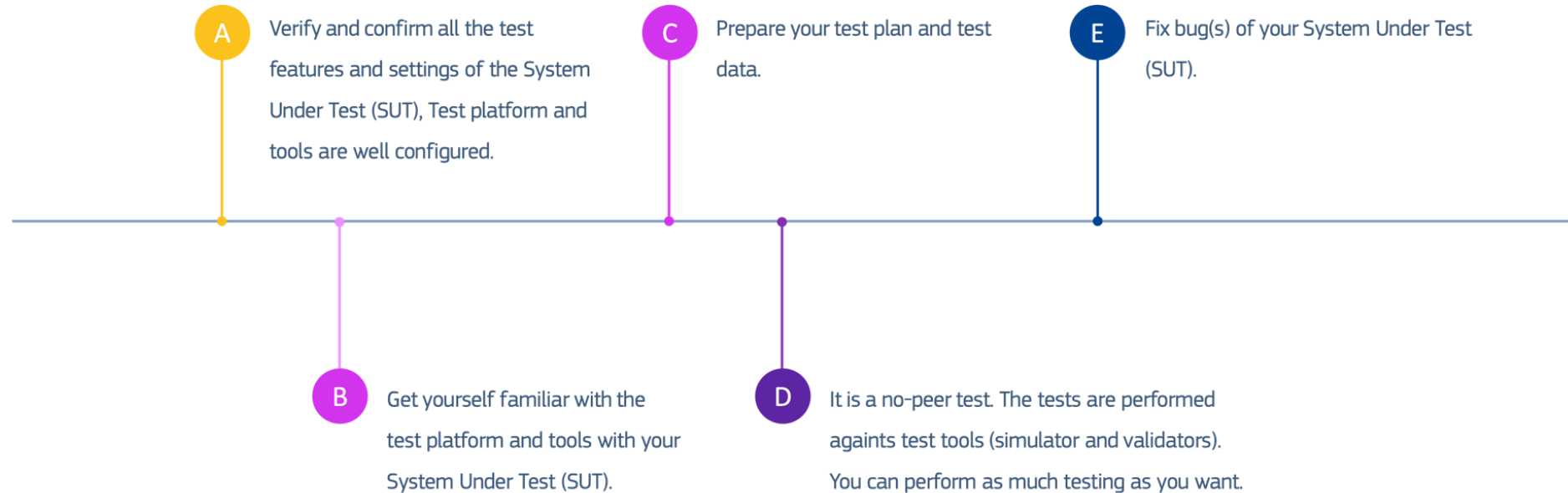
Recap of Projectathon tests – list (3)

- 2 Maintenance flows
 - TC11: DSD maintenance GUI
 - TC12: DSD maintenance LCM

Recap of Projectathon tests – summary

Parameter	Values									
Test ID	TC01	TC02	TC03	TC04	TC05	TC06	TC07	TC08	TC09	TC10
Data subject	Natural person	Natural person	Natural person	Natural person	Natural person	Natural person	Natural person	Natural person	Natural person	Natural person
Nr of evidences returned	1	0	0	0	1	1	2	0	0	1
Type of evidences returned	PDF	N/A	N/A	N/A	PDF	PDF	PDF	N/A	N/A	XML
Common Service lookups	EB DSD	EB DSD	EB DSD	EB DSD	EB DSD, including a DSD conversation	EB DSD	EB DSD	EB DSD	EB DSD	EB DSD
Preview included	NO	NO	NO	NO	NO	YES	YES – at 2 diff. EPs	YES – rejection by user	YES - timeout	YES - transformation
Reauthentication at EP side	NO	NO	NO	NO	NO	YES	YES – at 2 diff. EPs	YES	YES	YES
Dynamic test data	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Kind of response	Successful	Failure - Error	Failure - Error	Failure - Error	Successful	Successful	Successful	Failure - Error	Failure - Error	Successful
Complexity	Basic	Basic	Basic	Basic	Moderate	Moderate	<u>Advanced</u>	Moderate	Moderate	<u>Advanced</u>

Preparatory Tests



How to perform preparatory tests:

1. Connect to Gazelle and go to the Projectathon Test Session.
2. Verify all the Profile/Actor/Transaction items registered for the test are well configured in the Gazelle Test Manager platform
3. Prepare the test plan and test data. It is especially important not to use production data to protect users' privacy
4. Follow the test case instructions and start the preparatory test.

21 Preparatory Tests – Summary (1)

ID	Actor	Test	Test Data	Mandatory/Optional
PTC01	Evidence Requester AP	Validate Evidence Request in Validator	Evidence Request	Mandatory
PTC02	Evidence Provider AP	Validate Evidence Response in Validator	Evidence Response	Mandatory
PTC03	Evidence Requester AP	Send Evidence Request as Evidence Requester	Evidence Request	Mandatory
PTC04	Evidence Requester AP	Receive Evidence Response as Evidence Requester	Evidence Response	Mandatory
PTC05	Evidence Provider AP	Receive Evidence Request as Evidence Responder	Evidence Request	Mandatory
PTC06	Evidence Provider AP	Send Evidence Response as Evidence Responder	Evidence Response	Mandatory
PTC07	Evidence Provider AP	Cut connection to Base Registry or generate Base Registry error	none	Optional
PTC08	Evidence Provider AP	Bring Access Point up and down	none	Optional
PTC09	Procedure Portal	EB lookup - Requirement	Requirement	Optional
PTC10	Procedure Portal	EB lookup - Evidence Type	Evidence Type	Optional
PTC11	Procedure Portal	DSD lookup - Evidence Provider	Evidence Provider	Optional
PTC12	Procedure Portal	DSD lookup - Conversation	Evidence Provider through Conversation	Optional

21 Preparatory Tests – Summary (2)

ID	Actor	Test	Test Data	Mandatory/Optional
PTC13	Procedure Portal	Use and update identity data	Identity data	Mandatory
PTC14	Procedure Portal	Redirect to Preview Space	Preview Space link	Optional
PTC15	Preview Space	Reauthenticate and match identity data	Identity data	Optional
PTC16	Preview Space	Preview Space timeout	Preview space timeout	Optional
PTC17	Preview Space	Display PDF evidence and check if user can accept or reject it	PDF evidence	Optional
PTC18	Preview Space	Display XML evidence (after applying human readable transformation) and check if user can accept or reject it	XML evidence	Optional
PTC19	Person / CS admin	Connect to Common Service management GUI	Update EB data or DSD data	Optional
PTC20	All actors	Check if logs of all relevant components can be consulted by the Projectathon participants	Application logs	Mandatory
PTC21	All actors	Verify all relevant components have the correct system time, sync with a time server if needed	System time	Mandatory

Connectivity Tests

- The Connectivity Test is **mandatory** to all the onsite/online/hybrid participants that are operating a System Under Test (SUT), since all SUTs are expected to be available online and capable to make/receive connections to/from other SUTs.
- The objective of the Connectivity Test is to **diagnose possible network problems** before the actual Projectathon such as verifying the firewall configuration, DNS registration and port access rights to ensure all the nodes and machines from different test participants can communicate with each other during the actual Projectathon.
- The reason why SUTs cannot just be available on a local computer inside the event location, is that the event location will have a restricted network access, meaning that most or all incoming connections will be blocked. SUT operators will be able to connect to and control SUTs that are publicly available on the internet and SUTs on the internet should be able to communicate with each other.
- 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.
- Depending on the SUT details, we will facilitate the automation of Connectivity tests as much as possible (e.g. through the execution of provided scripts)

5 Connectivity Tests - Summary

ID	Actor	Test	Test Data	Mandatory/Optional
CTC01	Evidence Requester AP	Send AS4 message	AS4 Ping or Evidence Request	Mandatory
CTC02	Evidence Requester AP	Receive AS4 message	AS4 Ping or Evidence Response	Mandatory
CTC03	Evidence Provider AP	Send AS4 message	AS4 Ping or Evidence Response	Mandatory
CTC04	Evidence Provider AP	Receive AS4 message	AS4 Ping or Evidence Request	Mandatory
CTC05	Preview Space	Ping or access Preview Space	Ping or browser access	Optional

How to perform Preparatory and Connectivity Tests

- Details are given in the next slides:
 - Share your SUT network and AS4 public certificate: in Gazelle
 - Perform the Preparatory Tests (no-peer tests): in Gazelle
 - Perform the Connectivity Tests: outside of Gazelle (through the execution of manual tests or provided scripts)

Test levels



June Projectathon – Test levels

- Looking back at the April event and forward to the future events, we suggest to currently group the Projectathon test cases into 4 levels
 - Level 1:
 - TC01 to TC05: the No-Preview test cases
 - Level 2:
 - TC06 to TC10: the Preview test cases
 - TC11 to TC12: the CS update test cases (via LCM updates or GUI updates)
 - Level 3
 - Adding more dynamic eID test cases by integrating eID nodes into the transactions
 - Adding test cases covering related systems (e.g. EUCARIS)
 - Level 4
 - Adding actual Base Registries to the test cases (e.g. population registry, tax authorities, etc.)
 - Running full end-to-end test cases in dynamic mode with dynamic data, from user at Procedure Portal to Base Registry at Competent Authority

June Projectathon – Test levels

- Do these levels make sense?
 - Should we add some levels?
 - Should we add types of tests to levels or move tests between levels
- In Level 1 we expect mainly
 - Observers in April that will join as Participants in June
 - Participants in April that corrected some bugs or made some improvements and want retest some L1 tests
 - Participants in April that performed some steps in manual or test tool mode and now want to execute those tests in automated mode
 - Participants in April that want to repeat L1 tests against more counterparties

June Projectathon – Test levels

- In Level 2 we expect mainly
 - Participants in April that mainly tested L1 tests and now want to move to L2 tests
 - Participants in April that corrected some bugs or made some improvements and want retest some L2 tests
 - Participants in April that performed some steps in manual or test tool mode and now want to execute those tests in automated mode
 - Participants in April that want to repeat L1 tests against more counterparties

June Projectathon – Test levels

- In Level 3 we expect mainly
 - Participants that have a test eIDAS node available for testing, to make some initial tests
 - This will allow us to test the test cases and/or test data and make improvements for the October event if needed
 - Participants that want to start testing with related systems
 - E.g. a EUCARIS technical bridge where EUCARIS runs an eDelivery Access Point so that
 - Evidence Requesters can request vehicle related evidences via the EUCARIS bridge
 - Evidence Providers that choose to make the OOTS connection via the EUCARIS bridge (instead of a national or sub-national eDelivery Access Point) can provide vehicle related evidences

June Projectathon – Test levels

- In Level 4 we expect mainly
 - Participants that are advanced and almost ready to go into production because they can
 - Use dynamic data at all points of the evidence flow
 - Test an end-to-end connection from user at Procedure Portal to Base Registry at Competent Authority

June Projectathon – Test levels

- What about the test levels and cases?
 - Do they make sense?
 - The test cases in L1 and L2 are the ones that were available in the April Projectathon.
 - Are they easy to execute? Do you have all the information or can you get it easily?
 - Should some tests be modified, deleted, added before the June Projectathon?
 - Please provide your suggestions for test cases in L3 and L4
 - E.g. on eID testing in L3, please let us know
 - Whether your teams can use these test eIDAS nodes in the Projectathon testing
 - If you have any recommendations on how to test them (e.g. based on the eIDAS interoperability testing)
 - If you have test data sets (identities) available for sharing or whether you can insert additional test data upon request
- What level do you expect to achieve during the June Projectathon
- If possible, how much time do you think you (with your Projectathon team) will spend on each level during the June Projectathon, calculated in percentage of time

Test data



Test data sets

- The test data sets from the April Projectathon will be largely reused, with some minor corrections/changes
 - The details and changes will be shared with the participating Projectathon teams via the MS Teams channel
- We started with basic, end-to-end data, that can be gradually enriched and enhanced 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

Test data sets availability

- The test data will be loaded into the
 - **Common Services instance:** acceptance environment of the Common Service (EB and DSD) instance that will go in production in December and that will be used as primary option for the Pre-Projectathon and Projectathon based Common Service testing. See next slides for samples.
 - **Testing Services instance:** existing, component level testing services that are re-used as secondary option (process ongoing) for the Pre-Projectathon and Projectathon based Common Service testing.
 - The baseline dataset present in the testing services serves for functional testing of these components as was also the case for previous versions of the testing services.
 - The Projectathon related data sets for Projectathon testing and preparatory testing could be made available (process ongoing) using the country code P2 as part of the URL (only applicable for testing services URLs)
- The test data details and updates will be shared in the Microsoft Teams Implementers Space for the Projectathon
 - If you are not already there, access to it can be requested via selecting the relevant item in the [Service Desk](#)
 - This MS Teams channel will be used for relevant information sharing before and during the Projectathon

Test data samples – EB lookup – Requirement

- This Common Service request is a Get List of Requirements Query to the Evidence Broker
- The call is an HTTPS GET request with HTTP parameters:
 - queryId: urn:fdc:oots:eb:ebxml-regrep:queries:requirements-by-procedure-and-jurisdiction
 - country-code: AT
 - procedure-id: T2
- Actual Query to CS instance: <https://projectathon.oots-common-services.eu/query/eb/rest/search?queryId=urn:fdc:oots:eb:ebxml-regrep:queries:requirements-by-procedure-and-jurisdiction&procedure-id=T2&country-code=AT>
- The response is an OOTS Evidence Broker Get List of Requirements Success Response with:
 - HTTP status code 200
 - A valid QueryResponse in the HTTP body, containing the information requested

Test data samples – EB lookup – Evidence Type

- This Common Service request is a Get Evidence Types for Requirement Query to the Evidence Broker
- The call is an HTTPS GET request with HTTP parameters:
 - queryId: urn:fdc:oots:eb:ebxml-regrep:queries:evidence-types-by-requirement-and-jurisdiction
 - country-code: AT
 - requirement-id: <https://sr.oots.tech.europa.eu/requirements/f8a6a284-34e9-42c7-9733-63b5c4f4aa42>
- Actual Query to CS instance: <https://projectathon.oots-common-services.eu/query/eb/rest/search?queryId=urn:fdc:oots:eb:ebxml-regrep:queries:evidence-types-by-requirement-and-jurisdiction&country-code=AT&requirement-id=https://sr.oots.tech.europa.eu/requirements/f8a6a284-34e9-42c7-9733-63b5c4f4aa42>
- The response is an OOTS Evidence Broker Get Evidence Types for Requirement Query Success Response with:
 - HTTP status code 200
 - A valid QueryResponse in the HTTP body, containing the information requested

Test data samples – DSD lookup – Evidence Provider

- This Common Service request is a Get Data Services Query to the Data Service Directory
- The call is an HTTPS GET request with HTTP parameters:
 - queryId: urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction
 - country-code: AT
 - evidence-type-classification: <https://sr.oots.tech.europa.eu/evidencetypeclassifications/EU/b6a49e54-8b3c-4688-acad-380440dc5962>
- Actual Query to CS instance: <https://projectathon.oots-common-services.eu/query/dsd/rest/search?queryId=urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction&country-code=AT&evidence-type-classification=https://sr.oots.tech.europa.eu/evidencetypeclassifications/EU/b6a49e54-8b3c-4688-acad-380440dc5962>
- The response is an OOTS Data Service Directory Get Data Services Success Response with:
 - HTTP status code 200
 - A valid QueryResponse in the HTTP body, containing the information requested

Test data samples – DSD lookup – Conversation - DSD:ERR:0005

- This Common Service request is a Get Data Services Query to the Data Service Directory
- The call is an HTTPS GET request with HTTP parameters:
 - queryId: urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction
 - country-code: IT
 - evidence-type-classification: <https://sr.oots.tech.europa.eu/evidencetypeclassifications/EU/d080dc98-46ae-4a00-a5f7-b54da000457a>
- Actual Query to CS instance: <https://projectathon.oots-common-services.eu/query/dsd/rest/search?queryId=urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction&country-code=IT&evidence-type-classification=https://sr.oots.tech.europa.eu/evidencetypeclassifications/EU/d080dc98-46ae-4a00-a5f7-b54da000457a>
- The response is an OOTS Data Service Directory Get Data Services Error Response with:
 - DSD error code DSD:ERR:0005
 - A valid QueryResponse in the HTTP body, containing the details of the missing attributes

Test data samples – DSD lookup – Missing attributes

- The DSD response from the previous slides indicates that the lookup to the DSD does not immediately result in a match, because additional User Provided Attributes are needed to select the proper Evidence Provider.

```
<rim:Slot name="JurisdictionDetermination">
```

```
<rim:SlotValue xsi:type="rim:AnyValueType">
```

```
<p4s:EvidenceProviderJurisdictionDetermination>
```

```
<p4s:JurisdictionContextId>fab7e562-1c73-44e5-bcae-12f459822dd7</p4s:JurisdictionContextId>
```

```
<p4s:JurisdictionContext lang="EN">Location of Residence</p4s:JurisdictionContext>
```

```
<p4s:JurisdictionLevel>https://sr.ec.europa.eu/codelist/locationLevel/NUTS1</p4s:JurisdictionLevel>
```

```
</p4s:EvidenceProviderJurisdictionDetermination>
```

```
</rim:SlotValue>
```

```
</rim:Slot>
```

- Subsequently you can ask the user to provide the additional attribute or supply it manually and prepare the second, updated Get Data Services Query

Test data samples – DSD lookup – Conversation - Success

- This Common Service request is a Get Data Services Query to the Data Service Directory
- The call is an HTTPS GET request with additional HTTP parameters on top of the previous request:
 - jurisdiction-admin-l2: ITC (user requested data)
 - evidence-type-id: fa1fdb16-f383-45cb-9e8c-60efad4b253a (data coming from previous DSD response)
 - jurisdiction-context-id: fab7e562-1c73-44e5-bcae-12f459822dd7 (data coming from previous DSD response)
- Actual Query to CS instance: <https://projectathon.oots-common-services.eu/query/dsd/rest/search?queryId=urn:fdc:oots:dsd:ebxml-regrep:queries:dataservices-by-evidencetype-and-jurisdiction&country-code=IT&evidence-type-classification=https://sr.oots.tech.europa.eu/evidencetypeclassifications/EU/d080dc98-46ae-4a00-a5f7-b54da000457a&jurisdiction-admin-l2=ITC&evidence-type-id=fa1fdb16-f383-45cb-9e8c-60efad4b253a&jurisdiction-context-id=fab7e562-1c73-44e5-bcae-12f459822dd7>
- The response is an OOTS Data Service Directory Get Data Services Error Response with:
 - HTTP status code 200
 - A valid QueryResponse in the HTTP body, containing the information requested

Test data – Common Services demo

- Baseline Scenario:
 - Use Procedure T2 – “Submitting an initial application for admission to a public tertiary education institution”
 - Use EM SG Requirement ” Proof of tertiary education diploma/certificate/degree”
Identifier: <https://sr.oots.tech.europa.eu/requirements/f8a6a284-34e9-42c7-9733-63b5c4f4aa42>
 - Create an EU-Wide Evidence Type – “EU-Wide Diploma/Bachelor's Degree”
Classification: <https://sr.oots.tech.europa.eu/evidencetypeclassifications/EU/b6a49e54-8b3c-4688-acad-380440dc5962>
 - Link the **EU-Wide Evidence Type** with “**Proof of tertiary education diploma/certificate/degree**”
 - Import the Evidence Providers from the EM Subgroup and complement with “placeholder” Evidence Providers for any country participating in the projectathon and now declared an EP yet, together with “placeholder” Data Services for each country
EP Identifier Pattern: “BR_<Country Code>_<SeqNum>” e.g. “BR_DE_01” for the first evidence provider of Germany
DS Identifier Pattern: “AP_<Country Code>_<SeqNum>” e.g. “AP_IT_01” for the Italian Placeholder Data service
 - Link the **EU-Wide Evidence Type** with **ALL** the **Evidence Providers**

Lessons learned and best practices from first Projectathon



General lessons learned (1) :

In terms of registration for this event, the hardware and infrastructure provided, as well as catering services, participant feedback was overwhelmingly positive, and the organising team commit to reflecting on the feedback provided by those in attendance and working to improve on the overall experience, from ventilation to catering and coffee, wherever possible in the June and October sessions.

The organisers ensured remote participation to this Projectathon, although both participants and the organising team have concluded that on-site participation is always preferential for such an event, even if it is just a single person on-site.

There is a need for all parties involved to respect timings as that is important for the organising team and other participants.

The concept of being a remote observer does not work as well an onsite observer as there is a considerable risk of issues on technical, connectivity and cooperation levels.

Active participants should have at least one or two representatives/coordinators on site to ensure an efficient and effective testing throughout the event.

General lessons learned (2):

General information about the Projectathon shall be shared via the Projectathon Participant Playbook. Additional information shall be consolidated via MS Teams.

Even though MS Teams may not be the ideal solution for all participants as a means for communication and information sharing, it worked out well and is the best compromise currently available for IDPR / GRPR reasons.

There were some issues with the Webex connection, which will be addressed for the June event. It further demonstrates that on-site presence is highly recommended to ensure optimal results for the participants.

Although some teams commented that more testing time would be useful, the 3-day testing format is quite efficient for resource/planning purposes.

Overall, the event structure ensured a high degree of freedom/flexibility for test case executions and test partners. However, it could be discussed to structure the execution of specific tests during specific times and to mandate/propose testing partners in a more structured way for future events.

Teams liked the lanyards concepts, whereby the event participants wore colored lanyards matching their “status” (Participant, Observer, Monitor, etc.). Event participants stated that they were proud that some teams were able to earn the “Participant” lanyard during the event when they switched from “Observer to Participant.”

Connectivity-related lessons learned:

Teams should check that all their systems are accessible on standard ports (or non-standard ports for testing purposes).

Teams should check all their systems can make outgoing connections and access other systems on standard ports (or non-standard ports for testing purposes).

Teams that need to perform whitelisting of IP addresses or ports should do this well in advance as these internal processes might take some time.

Testing related lessons learned (1):

Specifications should be stabilised and/or frozen such that it is clear for all participants, which details should be used, both during the preparatory testing phase and the actual Projectathon event.

The preparatory test cases and connectivity tests are valuable for understanding the context and checking/troubleshooting issues in advance of the actual event.

Those teams that performed more preparatory test cases and connectivity tests in general were able to perform tests more efficiently during the actual event.

Predefined and preconfigured data sets are valuable for testing. The earlier they are available, the better. The same applies to Member State comments or additions to the test data sets.

The Support team and Monitor team are immensely helpful and effective in providing support and advice.

Having specialised Support team members (e.g., eDelivery Building Block team members) in addition to generic OOTS Support team members is highly valuable.

Testing related lessons learned (2):

Providing logs and evidences in Gazelle took the teams quite some time. It was not always clear, which party needed to provide specific evidence when multiple parties engaged in a transaction. This can be improved by elaborating the test case objectives/steps and detailing further what logs should be provided and by whom (e.g., in cases where there is a sender and a receiver, it should be the receiver that provides the evidence if possible). Moreover, some commonly provided logs (like Common Service responses) could be omitted during some test cases or transactions.

Gazelle could be improved by creating a "start testing approval" from the passive entity.

The test platform and OOTS validator are useful in checking OOTS data/messages, both in preparation and during the event.

Preparing for the Projectathon test cases could be improved by enhancing the component level OOTS testing services and adding more features such as end-to-end flows with matching/correlating data and/or integrating preview space functionality.

Testing related lessons learned (3):

Some participants preferred that preparatory tests are validated. However, due to short timelines and flexibility on Member States side to execute these tests, the testing/monitor/support teams are not planning to do a full validation of the results but will perform spot checks instead. Participants that have doubts on the execution or results of some test cases are always invited to contact the support team for a direct follow up.

The provision of test tools and test data allow the teams to get quickly up to speed and an insight into the proper execution of test cases. Therefore, teams can start with these, but should move to a real and automated system under test as soon as possible.

Teams that are quite advanced can decide to execute tests in parallel with several other teams at the same time. Others are encouraged to focus on completing one test case at a time.

Best practices/recommendations for next Projectathon (1)

Participate to as many Projectathons as possible as each one is an opportunity to gain experience and boost your progress.

Even if you think you are not completely ready, join as an observer and be prepared to become an active participant during the event.

On site participation is key for ensuring a good testing and networking experience.

If the whole team cannot be on site, having 1 or 2 coordinators on site clearly increases your level of effective involvement.

Read the Projectathon Participant Playbook and its Annexes to get the necessary background information and guidelines.

Register to the MS Teams collaborative space.

Respect the timelines:

- Register all your team members in time
- Register your SUT in time, including the test and connection details

Best practices/recommendations for next Projectathon (2)

Perform as many preparatory tests as possible.

Perform the connectivity test to not lose valuable testing time during the event (and keep your own connection details stable).

Reach out to the support team before, during or after the event as they are highly effective in sorting out questions and problems.

Reach out to the monitors during the event for any question related to testing or documenting/logging test cases.

Check out the exploratory sessions details in advance so you can plan to participate to them while still having other team members covering the test case executions.

Come with a mindset to learn and help each other.

Connection links should be shared in advance, as early as possible before the start of the event.

How to do pre-testing in Gazelle?

Marie-Laure Watrinet



Pre-Projectathon phases

- Prepare your environment and share it -> before 29 May 2023
 - This is needed for Connectivity tests
 - Share your SUT network
 - Share your AS4 public certificate
- Perform the Preparatory tests -> 25 May – 9 June 2023
- Perform the Connectivity tests -> 29 May – 9 June 2023

Share your network in Gazelle

Share your network in Gazelle

- Deadline: 29 May 2023
- Pre-requisite: having your SUT created and accepted in Gazelle
- Objective: share the **connectivity details of the webservices your system exposes** so that other MS (SUTs) will know the endpoints where to send data
- Default configurations for your endpoints have been generated by the technical team based on your systems registration
- **Actions for you**: update those default entries to reflect the actual configuration of your SUT:
 1. Declare your SUT hostname and IP address
 2. Validate and approve SUT Network Interface list generated by Gazelle

Share your network in Gazelle

1. Declare your hosts:

Preparation > Select *Your Org*: Network Interface; and then choose a SUT

- Declare the hosts your systems are using (needed for other participants to configure their firewall and accept incoming requests)
 - If your SUT acts as a server, default host has been generated, modify the values by clicking on the Edit button
 - If your SUT acts as a client, no default host has been generated, add it by clicking on “Add a network config” button.

Configurations

Select a system Evidence Provider/SYSTEM_EC_FR_KER_1

Network configurations for EC_FR_KER - Kereval

Add a network config.

Host name ▲

Alias ▲

IP ▲

Comment

Action

ec-fr-ker0 Not used by any system



Results per page : 20 ▼

Share your network in Gazelle

1. Declare your hosts

- Fill up at least: “host name” and “IP address” and save

Configuration edition



EC_FR_KER

Host name
ec-fr-ker0

Alias

IP Address

Comment

Save Cancel

- You can add as many hosts as you need
- You can edit or delete the hosts you created

Share your network in Gazelle

2. Validate and approve your systems network configuration

Preparation > Select *Your Org*: Network Interface; and choose a SUT

- Update the services your system is providing, **and approve them.**
- NB: If your system only acts as a client, you can skip this section for this SUT.
- Click on the “edit” icon to edit the values:
 - Select the right host
 - Edit the port used
 - Indicate if the communication is secured or not secured
 - For web services, edit the URL
- **Once finalised, validate by clicking on the “tick” icon under Action.**
 - It will inform others that your config has been validated and they can use it
- Your test partners will use this info for connectivity test and peer-to-peer test with your SUT during the event
- Repeat the steps for all your SUTs.




System configurations

Add a config. Generate configurations Refresh

Type Show all ✕

Actor Show all ✕

Export as Excel file

Table	Type	Actor	Host name	IP	Port	is Secured ?	Details 1	Details 2	Details 3	Approved	Action
Webservice	EV_PROVIDER - Data Service	ec-fr-ker0	ec-fr-ker0		80	<input type="checkbox"/>	EV_EXCHANGE:Request evidence	http://ec-fr-ker0/your_url		no	  

Results per page : 20

Export as Excel file

To duplicate the row

Share your certificates

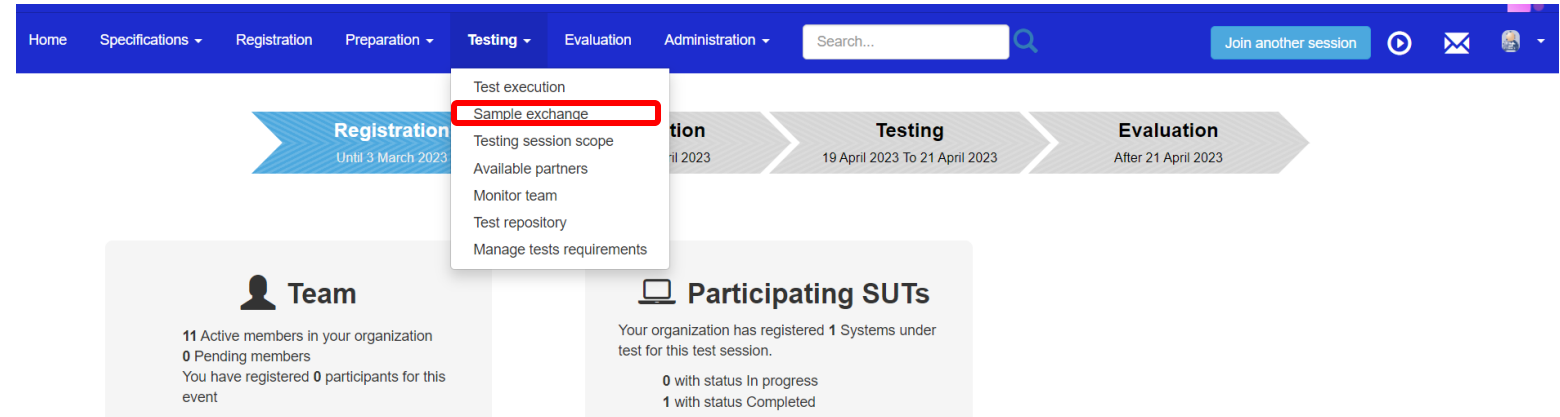
Share your AS4 public certificate and C3, C4 identifiers

- Deadline: 29 May 2023
- Pre-requisite: having your SUT created and accepted in Gazelle
- Objective: before exchanging AS4 messages with your test partners, **you need to exchange** with them:
 - The AS4 public certificates
 - **And** the following identifiers:
 - C3 (Access Point identifier - AP_XX_01 where XX is the country code)
 - C4 (Business Register/end-user behind AP – BR_XX_01 where XX is the country code)
- **Actions for you:**
 1. Upload/share your SUTs AS4 public certificates and identifiers in Gazelle
 2. **To be performed during connectivity tests:** download the AS4 public certificates and identifiers of your test partners from Gazelle and configure them accordingly before exchanging AS4 messages during the event.

Share your AS4 public certificate and C3, C4 identifiers

1. Upload your AS4 public certificate and share your C3, C4 identifiers

- Compress your AS4 public certificate in zip format
- Go to Testing > Sample exchange
- In the dropdown list, select your System Keyword



List of samples

Sample sharing at the system level

This page is of interest for the systems that can share or render 'samples'. This is usually the cases for the actors Report Creator/Reader, Evidence Document Creator, Document Sources, Document Consumer, Display, Source.... This page makes it possible for you to see what are the samples available and the one you might shared.

Organization : EC_FR_KER - Kereval

systems SYSTEM_FR_KER_2

Samples to share Samples available for rendering

You have to create the following type of samples for your peers to render. Note that you may share more than sample one per type of sample.

AS4 Public Certificate +

Share your AS4 public certificate and C3, C4 identifiers

1. Upload your AS4 public certificate and share your C3, C4 identifiers

- In the tab “Samples to share”, you can click on the “+” sign to add your certificate

List of samples

Sample sharing at the system level

This page is of interest for the systems that can share or render 'samples' . This is usually the cases for the actors Report Creator/Reader, Evidence Document Creator, Document Sources, Document Consumer, Display, Source....
This page makes it possible for you to see what are the samples available and the one you might shared.

Organization :

EC_FR_KER - Kereval

systems

SYSTEM_FR_KER_2

Samples to share

Samples available for rendering

You have to create the following type of samples for your peers to render. Note that you may share more than sample one per type of sample.

AS4 Public Certificate

+

Share your AS4 public certificate and C3, C4 identifiers

1. Upload your AS4 public certificate and share your C3, C4 identifiers

- In the sample edit form, indicate the name of your system
- In description, **indicate C3 & C4 identifiers** for AS4 messaging (XX is the country code)
 - C3 (AP_XX_01)
 - C4 (BR_XX_01)
- Click on the “Save” button
- In the “file(s)” tab, upload your Public AS4 Certificate (in zip format) by clicking the “+” sign.
- Once finished, go back to **list of samples** and repeat the steps for all your SUTs.

Edit an attribute associated to : AS4 Public Certificate

summary file(s)

Name
FR_sys_name

Description

C3 (AP_XX_01)
C4 (BR_XX_01)

Usage
connectathon

Sample is ready to be used by others systems ☒

Save

Edit an attribute associated to : AS4 Public Certificate

summary file(s)

Id	File Type Keyword	File Type description	Sample File description	Minimum Files	Maximum Files	Action
1	ZIP	Zip File	Certificate uploaded in a zip	1	1	+

Back to list of Samples

Share your CA certificate and C3, C4 identifiers


1bis. Upload your CA certificate (if you are not using a known Certificate Authority)


- Follow the steps of 1.
Upload your AS4 public certificate and share your C3, C4 identifiers
- Skip the step: In the tab “Samples to share”, you can click on the “+” sign to add your certificate
- Select CA Certificate in the “Sample to share” tab

Samples to share

Samples available for rendering

You have to create the following type of samples for your peers to render. Note that you may share more than sample one per type of sample.

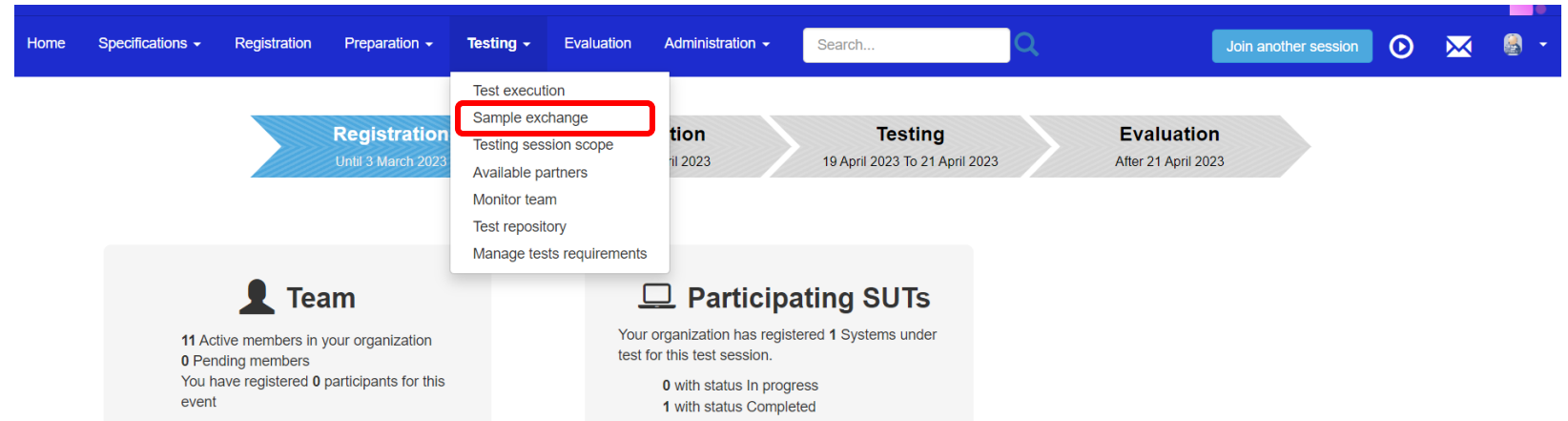
 AS4 Public Certificate +

 CA certificate +

Share your AS4 public certificate and C3, C4 identifiers

2. Download your test partner's AS4 public certificate and C3 and C4 identifiers (to be performed during connectivity test)

- Go to Testing > Sample exchange



- Select your system needing to exchange AS4 public certificate (Evidence Requester and Evidence Provider for instance)

List of samples

Sample sharing at the system level

This page is of interest for the systems that can share or render 'samples'. This is usually the cases for the actors Report Creator/Reader, Evidence Document Creator, Document Sources, Document Consumer, Display, Source.... This page makes it possible for you to see what are the samples available and the one you might shared.

Organization : TEST_ORG3 - Test Organization 3

systems **SYSTEM_TEST_ORG3_DEMO3**

Samples to share Samples available for rendering



You have to create the following type of samples for your peers to render. Note that you may share more than sample one per type of sample.

AS4 Public Certificate +

Share your AS4 public certificate and C3, C4 identifiers

2. Download your test partner's AS4 public certificate and C3 and C4 identifiers (to be performed during connectivity test)

- Click on “Sample available for rendering” tab, you will see all the AS4 public certificate shared by the participants

- You can download:
 - All the shared certificates by clicking on the  icon
 - Or
 - Select the certificate(s) you are interested in by clicking on the  icon

List of samples

Sample sharing at the system level

This page is of interest for the systems that can share or render 'samples'. This is usually the cases for the actors Report Creator/Reader, Evidence Document Creator, Document Sources, Document Consumer, Display, Source.... This page makes it possible for you to see what are the samples available and the one you might shared.











Organization : TEST_ORG3 - Test Organization 3

systems SYSTEM_TEST_ORG3_DEMO2

[Samples to share](#) **Samples available for rendering**

[Export to excel](#)


You have to render/consume some of the following objects that your peers have created. You can also add a comment on these samples.

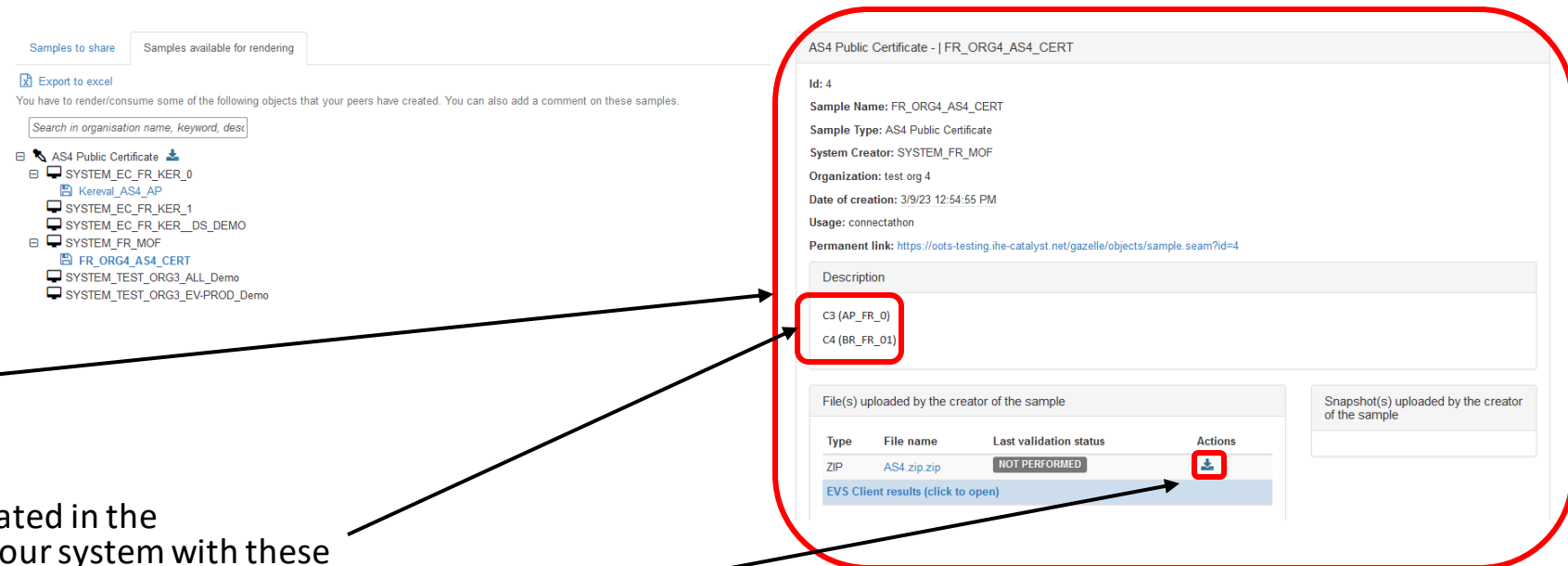
-  AS4 Public Certificate 
-  SYSTEM_EC_FR_KER_0
-  Kereval_AS4_AP
-  SYSTEM_EC_FR_KER_1
-  SYSTEM_EC_FR_KER_DS_DEMO
-  SYSTEM_FR_MOF
-  FR_ORG4_AS4_CERT
-  SYSTEM_TEST_ORG3_DEMO2
-  SYSTEM_TEST_ORG3_DEMO3


[Back to top](#)

Share your AS4 public certificate and C3, C4 identifiers

2. Download your test partner's AS4 public certificate and C3 and C4 identifiers (to be performed during connectivity test)

- The detail information of your test partner AS4 public certificate is displayed
- The C3 and C4 identifiers are stated in the description section, configure your system with these identifiers
- The AS4 public certificate is compressed in zip format, click on the  icon to download it
- Once the file is downloaded successfully, unzip the file and configure your SUT with your partner's AS4 public certificate



Samples to share | Samples available for rendering

[Export to excel](#)

You have to render/consume some of the following objects that your peers have created. You can also add a comment on these samples.

- AS4 Public Certificate
 - SYSTEM_EC_FR_KER_0
 - Kereval_AS4_AP
 - SYSTEM_EC_FR_KER_1
 - SYSTEM_EC_FR_KER_DS_DEMO
 - SYSTEM_FR_MOF
 - FR_ORG4_AS4_CERT
 - SYSTEM_TEST_ORG3_ALL_Demo
 - SYSTEM_TEST_ORG3_EV-PROD_Demo


AS4 Public Certificate - | FR_ORG4_AS4_CERT

Id: 4
Sample Name: FR_ORG4_AS4_CERT
Sample Type: AS4 Public Certificate
System Creator: SYSTEM_FR_MOF
Organization: test org 4
Date of creation: 3/9/23 12:54:55 PM
Usage: connection
Permanent link: <https://oosts-testing.ihe-catalyst.net/gazelle/objects/sample.seam?id=4>

Description

C3 (AP_FR_0)
C4 (BR_FR_01)

File(s) uploaded by the creator of the sample

Type	File name	Last validation status	Actions
ZIP	AS4.zip.zip	NOT PERFORMED	

[EVS Client results \(click to open\)](#)

Snapshot(s) uploaded by the creator of the sample

Share your CA certificate and C3, C4 identifiers

2bis. Download your test partner's CA certificate (to be performed during connectivity test)

- Follow the steps of 2. Download your test partner's AS4 public certificate and C3 and C4 identifiers
- Skip the step: The C3 and C4 identifiers are stated in the description section, configure your system with these identifiers
- Select CA Certificate in the "Sample to share" tab


Execute preparatory tests in Gazelle

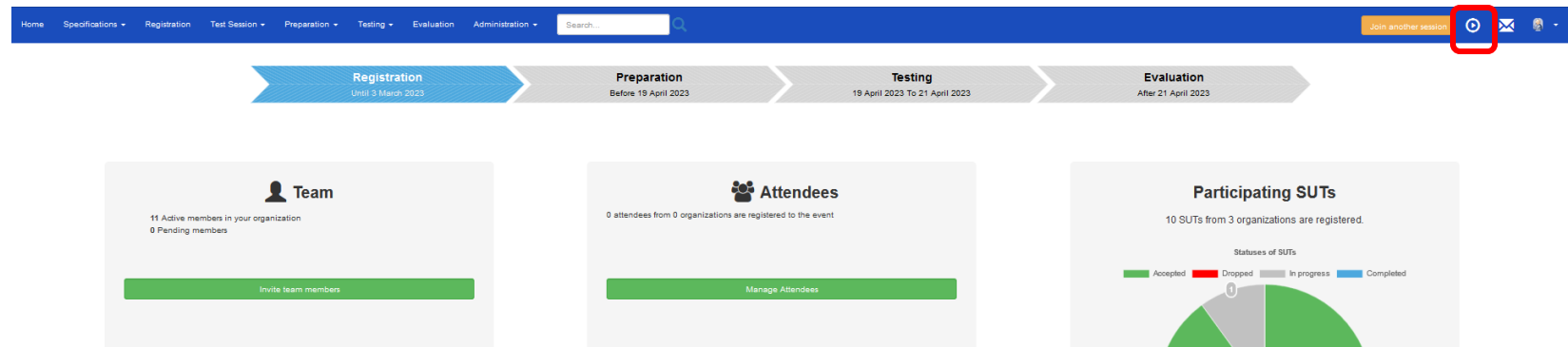
Execute preparatory tests in Gazelle

- Dates: 25 May – 9 June 2023
- Pre-requisite: having your SUT created and accepted in Gazelle
- Objective: Preparatory tests are **no-peer tests** to help you validate and prepare your SUTs before the event.
- Gazelle has generated a list of test cases that need to be executed based on the registered profile/actor/option combinations.
- **Actions for you:**
 1. Access test cases
 2. Execute the test
- Note that in Gazelle:
 - The main page that lists all the tests (see next slides) is called **Test execution page**
 - This page is composed of several **test instances** (=preparatory tests)
 - That are composed of several **test steps**

Execute preparatory tests in Gazelle


1. Access test cases -> Test execution page

- To access the Test execution page, click on the  icon on the top right menu or Testing > Test execution







Execute preparatory tests in Gazelle



1. Access test cases -> Test execution page



- This page lists all tests that should be covered by the system, they are grouped by the SUT and Profile/Actor/Option.
- The Test execution page can be filtered according to several criteria.
- When you select more than 1 criteria, the AND clause applies.
- You can save the filter by clicking on  and then enter a name to the filter. You can then access the saved filter by clicking on the filter name you created.



Test Execution



Organization  



System under test  



Testing Depth  



Status  



Domain  




Profile  


Actor  

Profile Option  

Transaction  

Test type  

Sort by System  Expand all Collapse all








SYSTEM_TEST_ORG3_EV-PROD_Demo
eIDAS ID Requester (Notified) Thorough

No test

SYSTEM_TEST_ORG3_EV-PROD_Demo
EV_EXCHANGE Data Service (None) Thorough

SUT name

Profile Actor (Option)

Test case(s)	Action	Test type	Optionality	Target	Partners	Run(s)
EV_EXCHANGE_PREP_VALIDATE_RESPON	 	preparatory	Required	0 / 1 run(s)	No-peer test	19 
AS4_REQUEST_RESPONDER_RECEIVER	 	preparatory	Required	0 / 1 run(s)	No-peer test	
AS4_RESPONSE_RESPONDER_SENDER	 	preparatory	Required	0 / 1 run(s)	No-peer test	

Access to Test case description

Start Test Instance

Progress 1 / 7

Tests executed / Total tests run expected

Test instance reference number, by clicking on the number, it will redirect you to the test instance page.

No test

SYSTEM_TEST_ORG3_EV-PROD_Demo
eIDAS ID Requester (None) Thorough





No test


SYSTEM_TEST_ORG3_EV-PROD_Demo
eIDAS eIDAS Node (None) Thorough

No test



2. Execute the test -> Test execution page to Start test instance page


- To start an instance, click on the  button

SYSTEM_TEST_ORG3_EV-REQUESTER						Progress		12			
EV_EXCHANGE Evidence Requester (None)						Thorough					
Test case(s)	Action	Test type	Optionality	Target	Partners	Run(s)					
EV_EXCHANGE_PREP_VALIDATE_REQUES	 	preparatory	Required	0 / 1 run(s)	No-peer test						
AS4_RESPONSE_REQUESTER_RECIEVER	 	preparatory	Required	0 / 1 run(s)	No-peer test						

- You will be redirected to the Start test instance page. Click also on the  button

Start test instance

EV_EXCHANGE_PREP_VALIDATE_REQUES Configuration						
Role	Systems					
	Organization Name	System keyword	Integration profile	Actor	Table	Action
 Procedure Portal [0,1] 	TEST_ORG3	SYSTEM_TEST_ORG3_EV-REQUESTER	EV_EXCHANGE	EV_REQUESTER		
1 Participants						



Execute preparatory tests in Gazelle

2. Execute the test -> Test instance page

- Once your test instance is started, the status of the test is “Running”

The screenshot displays the 'Test Instance Meta Data' page for 'TI-20'. The status is 'Running', highlighted with a red box. The test name is 'PTC01: Validate Evidence Request in Validator'. The test keyword is 'EV_EXCHANGE_PREP_VALIDATE_REQUES'. The test type is 'preparatory'. The test instance permanent link is '20'. The test current status is 'Running', also highlighted with a red box. The test started on 3/9/23 at 2:24:30 PM and was last changed on 3/9/23 at 2:26:17 PM. The testing session is 'Demo OOTS Projectathon'. The test description includes 'Special Instructions' stating that the test is executed according to the Testing Component 1: OOTS validator 2022_Q4, available via a specific URL. It also notes that no access to the Testing Services Test Platform is needed as the validator can be executed in standalone mode. The validator implements and validates the data model as defined in another specific URL.

TI-20

TI-20 **Running**

Test
EV_EXCHANGE_PREP_VALIDATE_REQUES

Test Instance Meta Data
Description
Test Participants
Test Instance Steps
Files
Chat Room
Report an issue about this test

Test Instance Meta Data TI-20

Test Name: PTC01: Validate Evidence Request in Validator
Test Keyword: EV_EXCHANGE_PREP_VALIDATE_REQUES
Test Type : preparatory
Test Instance permanent link: 20
Test current status : **Running**
Started: 3/9/23 2:24:30 PM
Last changed: 3/9/23 2:26:17 PM
Testing Session : Demo OOTS Projectathon

Test Description

Special Instructions

This test is executed according to the Testing Component 1: OOTS validator 2022_Q4, available via https://ec.europa.eu/digital-building-blocks/wikis/display/SDGOO/1.+Testing+Component+1%3A+OOTS+validator+2022_Q4

No access to the Testing Services Test Platform is needed as the validator can be executed in standalone mode

The validator implements and validates the data model as defined in https://code.europa.eu/oots/idd/idd_chapters/-/tree/master/OOTS-EDM/

Execute preparatory tests in Gazelle

2. Execute the test -> Test instance page

- A test instance is always presented the same way, with

TI-20

Running

Test

EV_EXCHANGE_PREP_VALIDATE_REQUES

Test Instance Meta Data

Description

Test Participants

Test Instance Steps

Files

Chat Room

Report an issue about this test

Information (Metadata)

Test Instance Meta Data TI-20

Test Name: PTC01: Validate Evidence Request in Validator

Test Keyword: EV_EXCHANGE_PREP_VALIDATE_REQUES

Test Type : preparatory

Test Instance permanent link: 20

Test current status : Running

Started: 3/9/23 2:24:30 PM

Last changed: 3/9/23 2:26:17 PM

Testing Session : Demo OOTS Projectathon

Test instruction, description and evaluation

Test Description

Special Instructions

This test is executed according to the Testing Component 1: OOTS validator 2022_Q4, available via https://ec.europa.eu/digital-building-blocks/wikis/display/SDGOQ/1.+Testing+Component+1%3A+OOTS+validator+2022_Q4

No access to the Testing Services Test Platform is needed as the validator can be executed in standalone mode

The validator implements and validates the data model as defined in https://code.europa.eu/oots/tdd/tdd_chapters/-/tree/master/OOTS-EDM/

Description

In this test case, the Evidence Requester will validate the Evidence Request message it normally submits as payload to an eDelivery AS4 message, but now against a standalone validator, without involving the AS4 messaging part

Use your browser to navigate to https://oots-testing-pr-ag.westeurope.cloudapp.azure.com/ootsvalidator/request_response/upload

Select the 'OOTS Evidence Request' validation type

Validate your Evidence Request message

Evaluation

TEST STEP 10: Upon successful validation message against the validator, provide screenshot (including test case date/time) of the successful test case.

Test participants and role played in the test

Test Participants

Participating Systems

System keyword	Organization Name	System manager	Role in test	Integration profile	ActoBack to top	Table
SYSTEM_TEST_ORG3_EV-REQUESTER	TEST_ORG3	testuser1	Procedure Portal	EV_EXCHANGE	EV_REQUESTER	

Quick access menu to navigate to different sections of test instance.

Execute preparatory tests in Gazelle

2. Execute the test -> Test instance page

- A test instance is always presented the same way, with

EV EXCHANGE PREP VALIDATE REQUEST

SYSTEM TEST ORG3 EV-REQUESTER:EV REQUESTER

Use your browser to navigate to
https://oots-testing-pr-ag.westeurope.cloudapp.azure.com/ootsvalidator/request_response/upload
Select the 'OOT5 Evidence Request'
validation type
Validate your Evidence Request message
[Proof of test] screenshot (including
test case date/time) of the successful
test case.

Back to top

Test Instance Steps

Test steps, proof of test upload, and test result validation

Step	Trans	Trans. - Message Type	Opt.	Sending Actor	Receiving Actor	Status	Validation Status
- Instructions R SYSTEM_TEST_ORG3_EV-REQUESTER - EV_REQUESTER SYSTEM_TEST_ORG3_EV-REQUESTER - EV_REQUESTER							
10		Desc: Use your browser to navigate to https://oots-testing-pr-ag.westeurope.cloudapp.azure.com/ootsvalidator/request_response/upload Select the 'OOT5 Evidence Request' validation type Validate your Evidence Request message [Proof of test] screenshot (including test case date/time) of the successful test case.					✕ ✓ ➡
Logs: No comment, file or URL.							
<div>Upload a file (click or drop)</div>							
Step	Trans	Opt.	Sending Actor	Receiving Actor	Status	Validation Status	

Test instance status

Test current status : Running

Files

Upload a file (click or drop)

File upload to upload additional proof (if any)

Chat Room

Chat room to leave comment or note on the test (if any)


testuser1(TEST_ORG3) Status changed to : Running 3/9/23 2:24:30 PM (GMT+01:00)

add Comment

Back to top

Execute preparatory tests in Gazelle

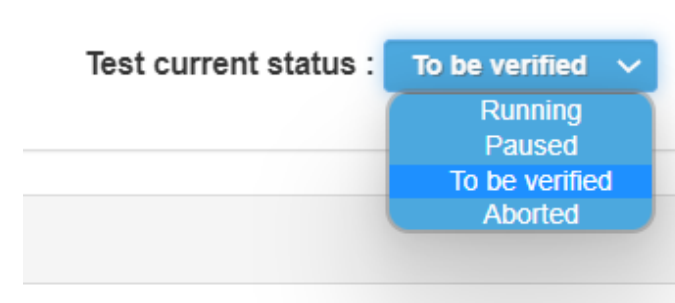
2. Execute the test

- **Carefully read the test description section**
- Follow the test steps, validate the test result with validator and upload the proof of test such as log, print screen, messages
- A test step always include the following information:
 - Test steps number
 - Type of message sent/validated in the step (can be null)
 - Actors involved in the test steps
 - Description of the test step: to be read and respected
 -  button: add comment or message regarding the test step
 - And “Upload File” button: to provide proof of testing such as log, print screen and messages

Execute preparatory tests in Gazelle

2. Execute the test

- After completing each test step, update the **test step status** by pressing either:
 - Failed ✖: the test step has failed on this step (e.g. validation result KO)
 - Completed ✔: the test step has been completed
 - Skipped ▶: the test step does not require any action from the user
- Once all the test steps are completed, update **the test instance** status to:
 - To be verified (means Success)
 - Aborted (means Failed)

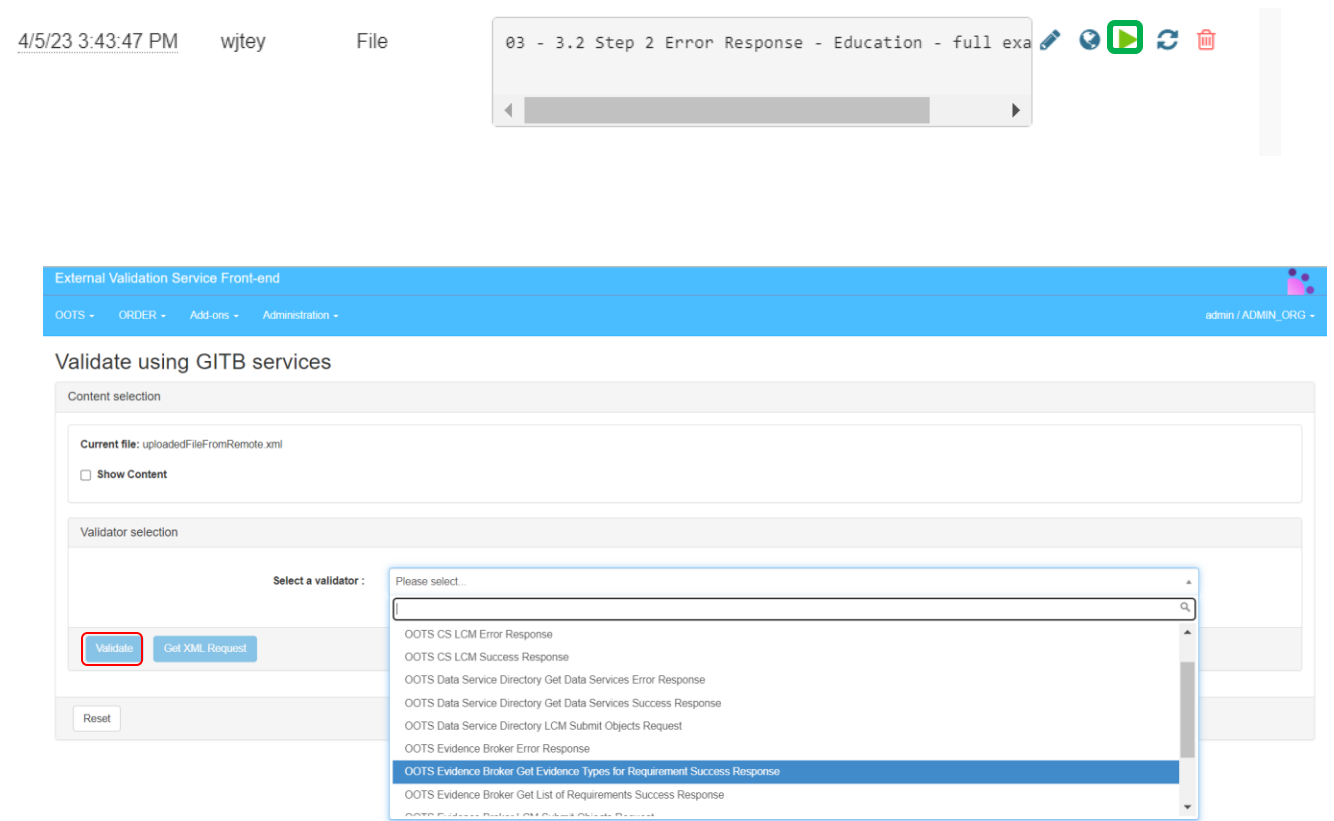


- Note that the preparatory tests results are not reviewed/verified by monitors during the preparatory phase, but we will review whether you executed these tests to prepare for the June Projectathon, and perform some random checks of your uploaded results

Execute preparatory tests in Gazelle

2. Execute the test – How to use the validator

- You can validate your proof of tests by clicking on the ► button in the test step
- You will be redirected to the Gazelle tool, EVS Client.
- Select the type of validator you would like to validate your file. And then click on the “Validate” button.



Execute preparatory tests in Gazelle

2. Execute the test – How to use the validator

- The validator is displayed.
- In case of validation failed, you will see the right side screen
- And a red dot will appear in the test step where you validate your proof of test to indicate the validation is failed.
- If the validated result is not displayed immediately, you can click on the “refresh” icon to refresh the result.

The screenshot displays the 'External Validation Service Front-end' interface. At the top, there's a navigation bar with 'OOTS', 'ORDER', 'Add-ons', and 'Administration' menus, and a user profile 'admin / ADMIN_ORG'. The main heading is 'Validate using GITB services'. Below this, the 'Information' tab is active, showing details for a file named 'uploadedFileFromRemote.xml' with OID '1.3.6.1.4.1.12559.11.33.4.51'. The validation date is '4/5/23 3:47:19 PM (CEST GMT+0200)'. The 'OOTS XML Validation' status is 'OOTS Evidence Response (Version N/A)', and the 'Validation Results' are 'DONE_FAILED'. A permanent link and data visibility information are also provided. Action buttons include 'Make this result public', 'Share this result', 'Validate again', and 'Perform another validation'.

The 'Validation Results' tab is also visible, showing the 'OOTS XML Validation Standard Report' and 'XML' views. The 'Validation Summary' indicates a failed validation with a red bar and a '5' score. The 'Report' tab shows a 'FAILED' status. The 'Validation Summary' section lists five constraints that failed, each with a description, formal expression, and location in the validated object. The constraints relate to the status attribute, Exception count, and the presence of specific rim slots like 'IssueDateTime', 'EvidenceProvider', and 'SpecificationIdentifier'.

At the bottom, a status bar shows the time '4/5/23 3:43:47 PM', the user 'wijey', and the file '03 - 3.2 Step 2 Error Response - Education - full example.xml'. A toolbar on the right includes icons for file operations and a red dot icon, which is highlighted with a green square, indicating a failed validation step.

Execute preparatory tests in Gazelle

2. Execute the test – How to use the validator

- The validator is displayed.
- In case of validation passed, you will see the right side screen
- And a green dot will appear in the test step where you validate your proof of test to indicate the validation is passed.
- If the validated result is not displayed immediately, you can click on the “refresh” icon to refresh the result.

Validate using GITB services


Information

File Name: uploadedFileFromRemote.xml
OID: 1.3.6.1.4.1.12559.11.33.4.52
Validation Date: 4/5/23 3:50:31 PM (CEST GMT+0200)
OOTS XML Validation: OOTS Evidence Exception (Version N/A)
Validation Results: **DONE PASSED**
Permanent link: <https://qualif2.the.kereval.cloud/evs/report.seam?oid=1.3.6.1.4.1.12559.11.33.4.52>
Data Visibility: Private - Owned By admin / ADMIN_ORG


[Make this result public](#) [Share this result](#) [Validate again](#) [Perform another validation](#)

Validation Results

OOTS XML Validation Standard Report [XML](#)


Validation Summary 

Overall Result Report **PASSED**

Validation Summary 

[Constraint Description](#) [Overall Result Report](#)

4/5/23 3:43:47 PM wjtey File

03 - 3.2 Step 2 Error Response - Education - full example.xml 

Connectivity tests

Connectivity tests

- Dates: 29 May – 9 June 2023
- Pre-requisite:
 - Having your SUT created and accepted in Gazelle
 - Having shared your network and certificates in Gazelle
 - If you do not input and approve your network in Gazelle before the due date (29 May), your network will not appear in the csv or excel file to be downloaded by other participants for connectivity test execution
- Objective: execute connectivity test script to **verify if you can connect to Gazelle and your test partners**
- **Actions for you:**
 1. Configure your firewall
 2. Export the System Interfaces Network list
 3. Execute the Connectivity Test script

Connectivity test

1. Configure your firewall

- Go to Preparation > Network configuration



- Download the host white-list by clicking on the “Download hosts file” button

- The hosts file contains all the nodes that are part of the “online-test-network” for the event.
- You can use this file to update or verify your Firewall configuration

IPs configuration

Hosts configuration

Network configuration information

:

Download hosts file

Example hosts list

hosts		
Fichier	Modifier	Affichage
192.168.0.170	demo	

Connectivity test

2. Export the System Interfaces Network list

Go to Preparation > SUT's network interfaces

- Set the filter to all organizations and approved network configuration by:
 - Remove the filter on the organization keyword by clicking on the ✖ icon
 - Set approved to "Yes"

Configurations

Search Criteria

Organization Keyword	Show all	✖	System	Show all	✖
Actor	Show all	✖	WS Transaction Usage	Show all	✖
Type	Show all	✖	Approved	(2) Yes	✖
is Secured ?	Show all	✖			

- The approve systems Interfaces are listed, click on the "Export as Excel file" link to download the file

URL for downloading configurations as CSV [Export as Excel file](#) [Add a config.](#)

Sys	Table	Type	Actor	Host name	IP	Port	is Secured ?	Details 1	Details 2	Details 3	Approved	Action
SYSTEM_FR_KER_DS_DEMO / EC_FR_KER		Webservice	EV_PROVIDER - Data Service	ec-fr-ker0		1024	true	EV_EXCHANGE:Request evidence	https://ec-fr-ker0:1024/your_url		yes	
SYSTEM_TEST_ORG3_DEMO2 / TEST_ORG3		Webservice	EV_PROVIDER - Data Service			80		EV_EXCHANGE:Request evidence	http://your_url		yes	✓ ✎ 📄 🗑

Connectivity test

2. Export the System Interfaces Network list

- A file called configurations.xls is downloaded

Example configurations.xls:

	A	B	C	D	E	F	G	H	I	J	K	L
1	Sys	Tat	Type	Actor	Host name	IP	Po	Is Secured	Details 1	Details 2	Details	Approve
2	SYSTEM_FI_KEHA_OOTS/FI_KEHA		Webservice	EV_PROVIDER - Data Service	harmony-ap01-sandbox.keha.cloud	20.16.123.143	8443	true	EV_EXCHANGE: Request evidence	https://harmony-ap01-sandbox.keha.cloud:8443/services/msh		yes
3	SYSTEM_MDG_EL_test_ap_1/EL_MD		Webservice	EV_REQUESTER - Evidence Requeste	mdg0	79.129.27.41	80	false	EV_EXCHANGE: Request evidence	http://mdg0/grtestap		yes
4	SYSTEM_FI_KEHA_OOTS/FI_KEHA		Webservice	EV_REQUESTER - Evidence Requeste	harmony-ap01-sandbox.keha.cloud	20.16.123.143	8443	true	EV_EXCHANGE: Request evidence	https://harmony-ap01-sandbox.keha.cloud:8443/services/msh		yes
5												

- Convert the configuration.xls to CSV format

Connectivity test

3. Execute the Connectivity Test script

- Go to:
<https://gitlab.inria.fr/gazelle/specific-tools/connectivity-test-scripts>
 - The script works on Windows and Unix
 - Read instructions in the README.md
- Execute the script as below with the CSV format converted SUT network interfaces list (configurations.csv) and save the result into a file

```
$ ./connect-test.[sh|ps1] -csv configurations.csv > connectivity-results.csv
```

- Report your connectivity results to the EC Support team
EC-OOTS-SUPPORT@ec.europa.eu

**Information points (Projectathon social event,
Ombudsman Award)**



European Ombudsman Award for Good Administration 2023

Voting open until 14 June 2023



Vote for the Once-Only
Technical System to be
awarded the European
Ombudsman Award for Good
Public Administration 2023!

Vote for project 37 “Reducing red tape in cross-border administrative procedures”.

<https://ec.europa.eu/digital-building-blocks/wikis/x/ljvZJw>

**Roundtable discussion on the status in each
Member State actively participating in the event**



June Projectathon – Test levels and capabilities

- What level do you expect to achieve during the June Projectathon
- If possible, how much time do you think you (with your Projectathon team) will spend on each level during the June Projectathon, calculated in percentage of time
- Will you come with a Preview Space
 - Does it support PDF files
 - Does it support conversion of XML to human readable transformation format
- Will your SUT have an eID node integration
 - At ER side
 - At EP side
- Will you test the Common Service data updates
 - Via the Common Service GUI
 - Via the LCM machine to machine interface
- Will you test with a real (acceptance) base register integration at EP side
 - Which data impacts does this have for you or for other test partners?
- Any other remarks or suggestions

Q&A / Discussion



Next Projectathon



Projectathon Overview (participant) – October Projectathon – tentative dates

JUNE

1 Information

29 June 2023

Attend the **Projectathon Deep-Dive session** during the **OOTS Implementers Café** on 29 June 2023.

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

Implementers Café #6

"Common Services Admin App & Projectathon Debrief (June event) and Preparation (October event)"
29/06/2023

SEPTEMBER

2 Registration

1 – 12 September 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**.

* or duplicate it from previous registration

OCTOBER

4 Projectathon

18-20 October 2023

Game on!

Connect and perform Peer-to-Peer marathon test!

3 Pre-projectathon test

Projectathon Kick-off session with all participants
Hybrid or online event on 13 September

14 September – 13 October 2023

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

2 - 13 October 2023

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

NOVEMBER

5 Post Projectathon

7 November 2023

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

Implementers Café #7

"Projectathon Debrief (October event) and next steps"
07/11/2023



Further questions?

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

