Once-Only Technical System Projectathon
Participant playbook V3.00

Annex 2: how to do pre-tests in Gazelle
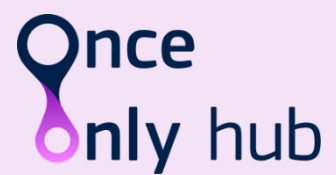
Once
Only hub

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Document history

Version	Date	Change editors	Changes
1.01	21/03/2023	Marie-Laure Watrinet (EC, DIGIT, EXT)	Creation of Annex 2 as independent annex of the playbook
2.00	22/05/2023	Marie-Laure Watrinet (EC, DIGIT, EXT)	Update of Annex 2 for June Projectathon
3.00	04/08/2023	Marie-Laure Watrinet (EC, DIGIT, EXT)	Update of Annex 2 for October Projectathon

Annex 2: Gazelle pre-Projectathon Tests Manual

Pre-requisites

Registration has been completed and SUTs have been accepted.

Overview

What you need to do during Pre-projectathon phase:

1. Share your SUT network in Gazelle

   a) Declare your SUT hostname and IP address

   b) Validate and approve SUT Network Interface list generated by Gazelle

2. Upload and share your public AS4 certificate and C3 and C4 identifiers in Gazelle

3. Perform preparatory tests

4. Perform connectivity tests

1 Share your network in Gazelle

During the Projectathon, you will be asked to test against other systems under test. It implies knowing the endpoints where to send data. Thus, Gazelle offers a feature to share the connectivity details (IP address, port, URL) of the webservices your system exposes.

The technical team has generated default configurations for your endpoints based on your systems' registration. Your task is to update those default entries so they reflect the actual configuration of your system under test.

By default, one host is generated for each system you have registered. You have the ability to change which host is used for each single entry in the list of configuration. It means that you can have several systems using the same host. You can also create additional hosts if needed.

1.1 Declare your hosts

1. Go to the Menu "Preparation > *Your Org*: Network Interface"
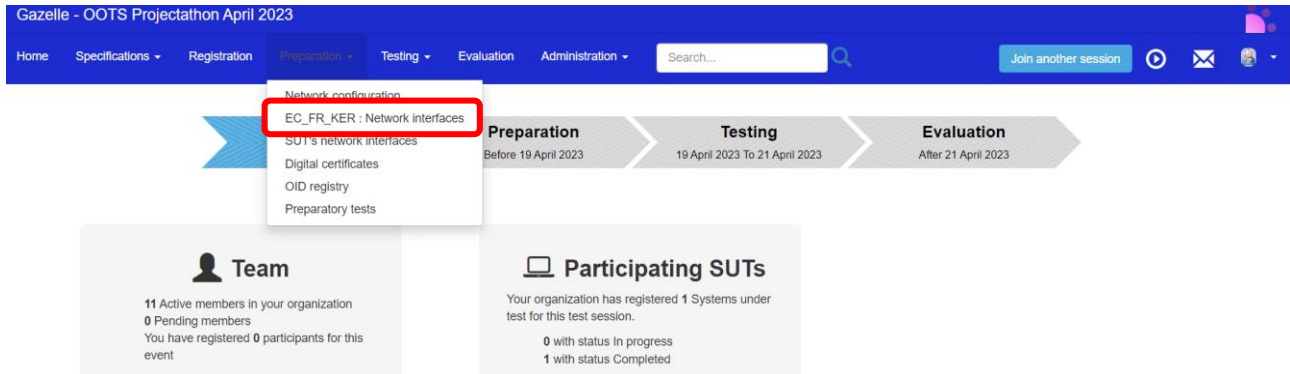
2. In the dropdown, choose a SUT
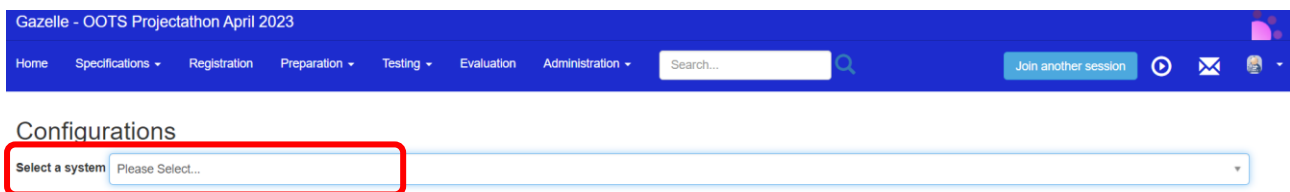
3. In the "Network configuration for *Your org*" section, you will need to declare all the hosts your systems are using. This information is needed for other participants to configure their firewall and accept incoming requests.

   - If your SUT acts as a server, Gazelle automatically generates a default host entry for your SUT. You can modify the default values by clicking on the Edit button.
   - If your SUT acts as a client and there is no default host being generated by Gazelle, you should add the host by clicking on the "Add a network config." Button.
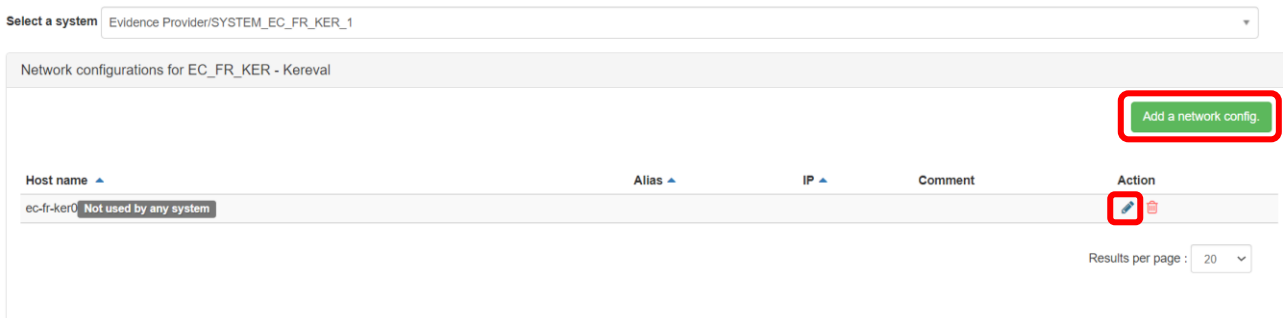
4. Fill up at least:

    a. the "host name" with the FQDN of your system

    b. the "IP Address" fields with the public IP address of your system

5. and save.

Configuration edition

EC_FR_KER

Host name

ec-fr-ker0

Alias

IP Address

Comment

Save Cancel

6. You can add as many hosts as you need.

7. You can edit or delete the hosts configurations you created, with the Edit or Delete icons.

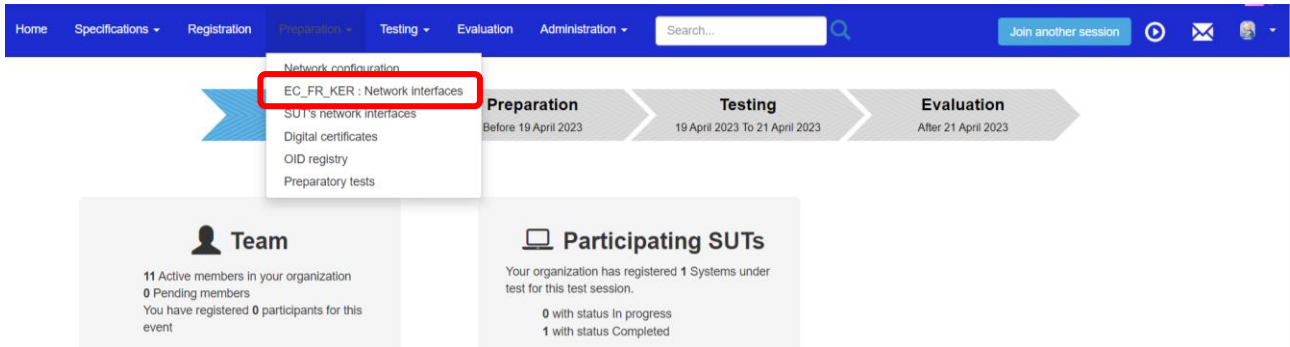Configurations

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

1.2 Validate and approve your systems network configuration

1. Go to the Menu "Preparation > *Your Org*: Network Interface"

2. In the dropdown, select one SUT

3. In the "System configuration" section, if your system provides services, you will see that Gazelle has generated default configurations for your system. In the following steps, you will edit and approve these configurations. If your system only acts as a client, Gazelle has not generated any configuration for your SUT, you can skip this section for this SUT.
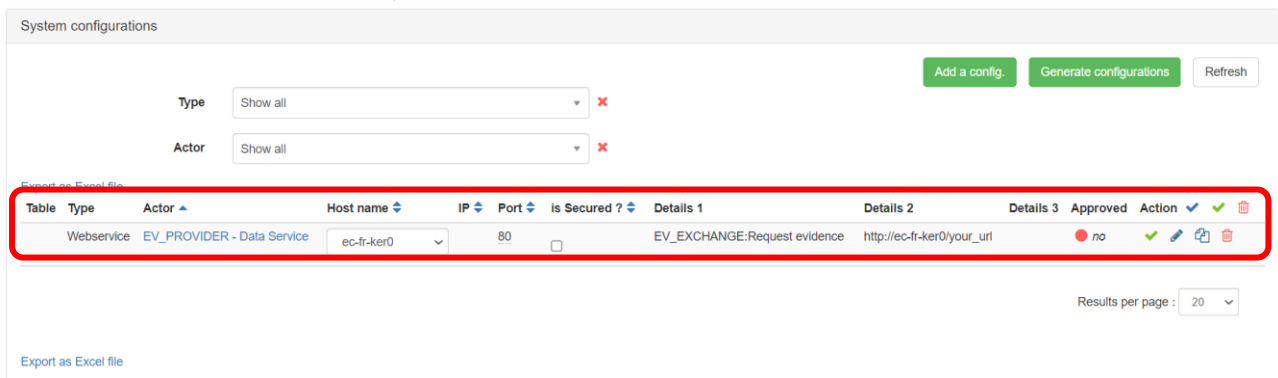
4. Click on the "edit" icon to edit the values:

    a. Select the right host

    b. Edit the port used

c. Indicate if the communication is secured or not secured.

d. For web services, edit the URL
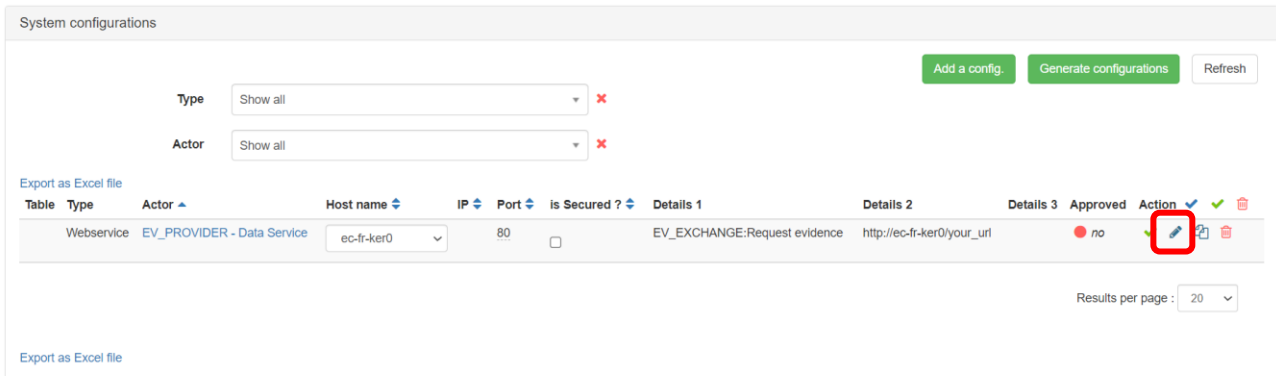
5. Once the SUT network interfaces configuration is ready, you can validate it by clicking on the "Approved" button. This will inform others that your configuration has been validated and they can use it.
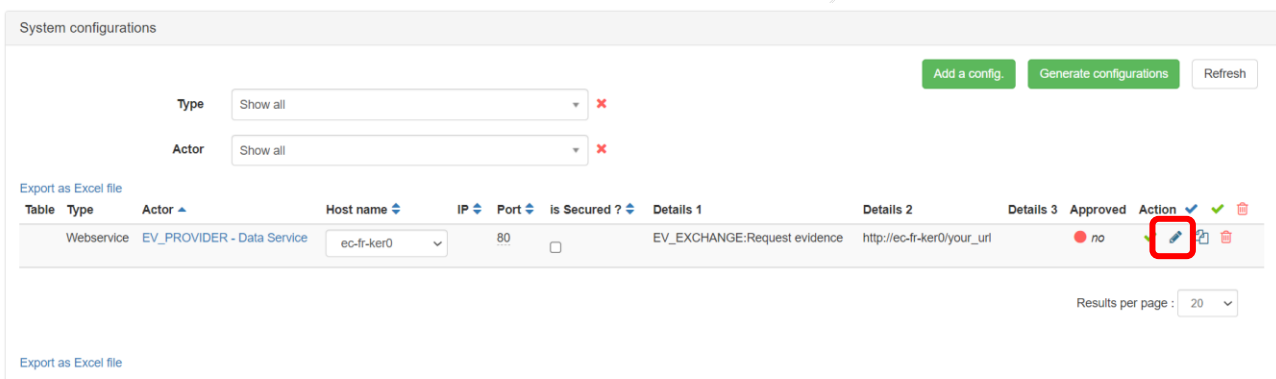
6. If you use secure and unsecure ports, you can duplicate the row by clicking on the button:
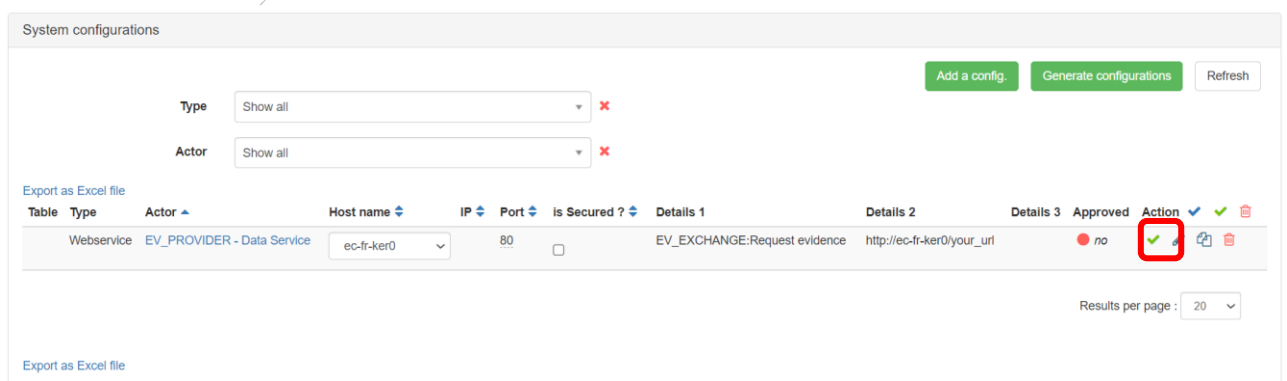
7. Your test partners will use this information to perform the connectivity test and peer-to-peer tests with your SUT during the event.

8. Repeat the steps for all your SUTs

2 Share your certificates

2.1 Share your AS4 public certificate and C3, C4 identifiers

- Before exchanging AS4 messages with your test partners, you need to exchange with your test partners:

  a) The AS4 public certificates

  b) The C3 and C4 identifiers

  To facilitate the exchange of the certificates and identifiers between the participants, all the participants are required to upload/share their SUTs AS4 public certificates and identifiers in Gazelle. Then the participants can download the AS4 public certificates and identifiers of their test partners from Gazelle and configure their SUTs accordingly before exchanging AS4 messages with their test partners during the event.

2.1.1 Upload your AS4 public certificate and share your C3, C4 identifiers

1. Compress your AS4 public certificate in zip format.

2. Go to the menu "Testing" > "Sample exchange"
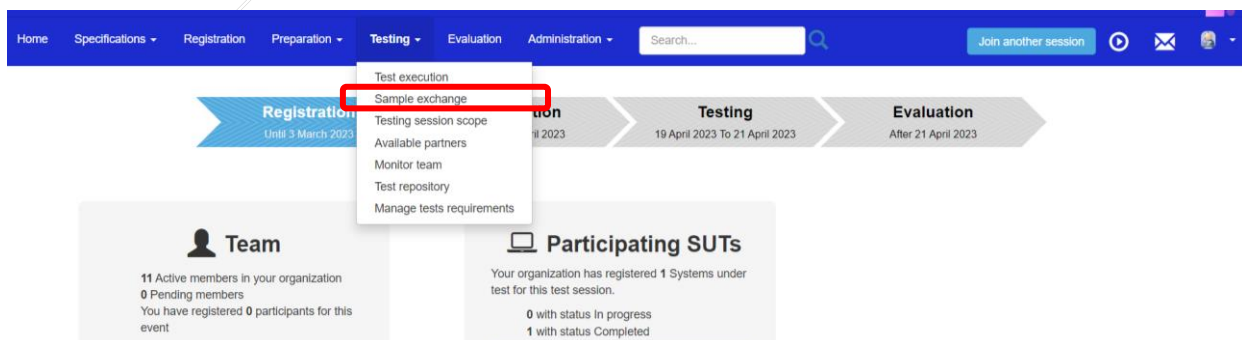
3. In the dropdown list, select your System Keyword.

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 ➕

4. 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

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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 ➕

5. Indicate the name of your system and click the "Confirm" button.

6. In the description, indicate the C3 and C4 identifiers for AS4 messaging (XX is the country code):
    a) C3 (AP_XX_01)
    b) C4 (BR_XX_01).

Edit Sample

Edit an attribute associated to : AS4 Public Certificate

summary   file(s)

Name

FR_ORG4_AS4_CERT

Description

C3 (AP_FR_0)
C4 (BR_FR_01)

7. Click on the save button below

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

8. In the "file(s)" tab, upload your Public AS4 Certificate (in zip format) by clicking on the "+" sign.

Edit Sample

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

9. Once you have successfully declared your AS4 configuration, you can go back to the list of samples.

10. Repeat the steps in this section for all your SUTs.

2.2 Upload your CA certificate

If you are not using a known Certificate Authority, you need to upload your CA certificate to Gazelle.

Follow the steps in 2.0.1 Upload your AS4 public certificate and share your C3, C4 identifiers (skip step 4), select CA certificate in the "Sample to share" tab.
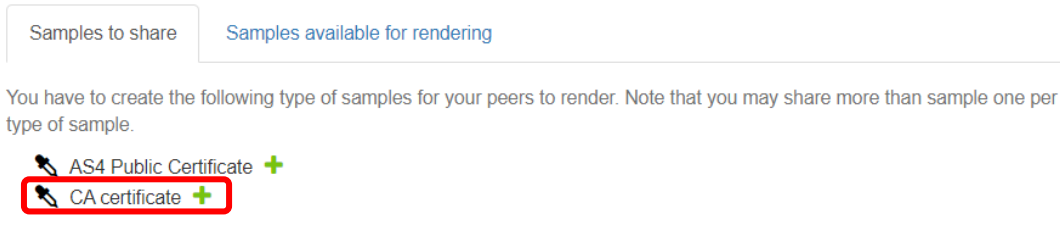
2.3 Download your test partner's AS4 public certificate and C3 and C4 identifiers

- These steps will be performed during the connectivity test.

1. Go to the menu "Testing" > "Sample exchange"
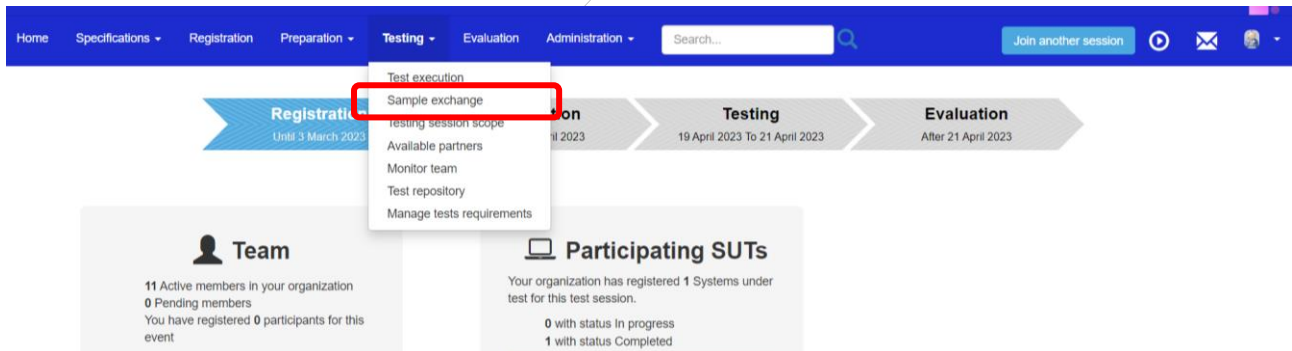
2. Select your system which need to exchange the AS4 public certificate for example Evidence Requester and Evidence Provider.

3. Click on "Sample available for rendering" tab, you will see all the AS4 public certificate shared by the participants.

4. You can download

    a) all of the shared certificates by clicking on the ⬇ icon. Or,

b) select certificate you are interested in by clicking on the 💾 icon.

5. The detail information of your test partner AS4 public certificate is displayed.

6. The C3 and C4 identifiers are stated in the description section, configure your system with these identifiers.

7. The AS4 public certificate is compressed in zip format, click on the ⬇ icon to download the zip file.

8. Once the file is downloaded successfully. Unzip the file and configure your SUT with your test partner's AS4 public certificate.

2.4 Download your test partner's CA certificate

Follow the steps in 2.0.3 Download your test partner's AS4 public certificate and C3 and C4 identifiers (skip step 6), select **CA certificate** in the "Sample to share" tab.

3 Execute preparatory tests in Gazelle

The preparatory tests are no-peer tests to help you validate and prepare your SUTs before the event. Gazelle generates list of test cases that need to be executed based on the registered profile/actor/option combinations.

3.1 Access test cases

1. To access to the test execution page, click on the ⊙ icon on the top right menu, or select "Test execution" in the "Testing"menu.
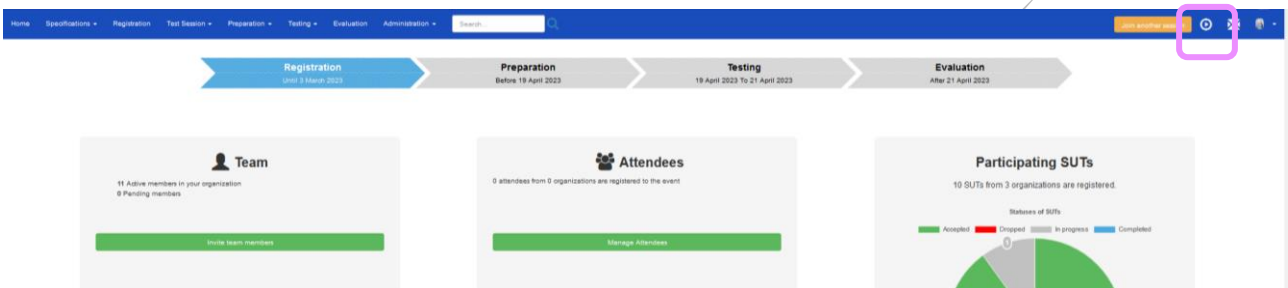
2. The Test Execution page lists all the tests that the system should cover. The test cases are grouped by the SUT and Profile/Actor/Option.
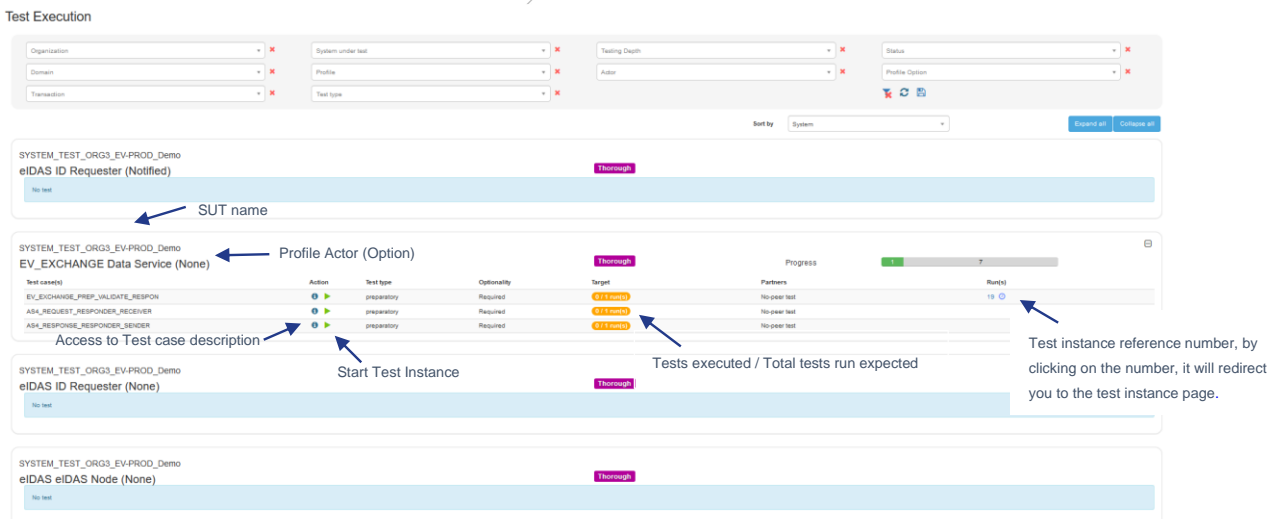
3. The test execution page can be filtered according to several criteria. When you select more than one criteria, the AND clause applies.

4. You can save the filter by click on the 💾icon and then enter a Name to the filter.

5. You can access to the saved filter by clicking on the filter name you created.

   You can set the filter as favorite/default filter by clicking on the ☆ icon.
   To delete the saved filter by clicking on the ✖ icon.

3.2 Execute the test

1. To start a test instance, click on the ▶ button.
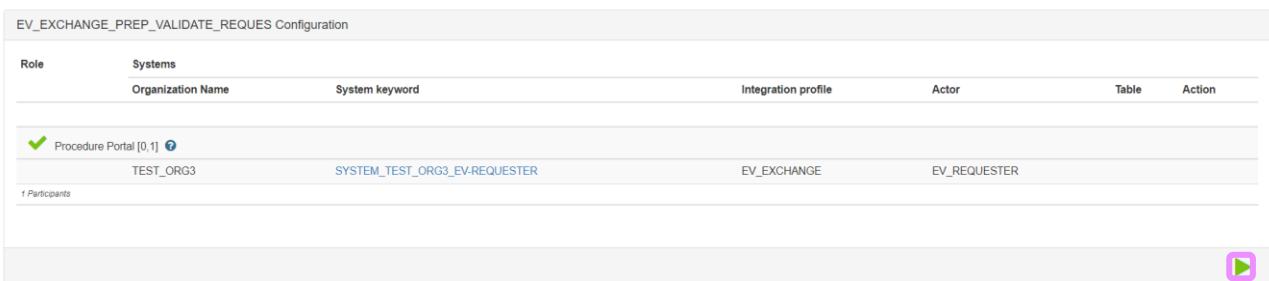
2. You will be redirected to the Start test instance page.

   In the Start test instance page, click on the ▶ button.

3. Once your test instance is started, the status of the test is " Running ".

4. A test instance is always presented in the same way, with:

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]

Quick access menu to navigate to different sections of test instance.
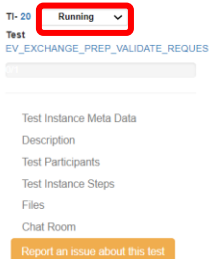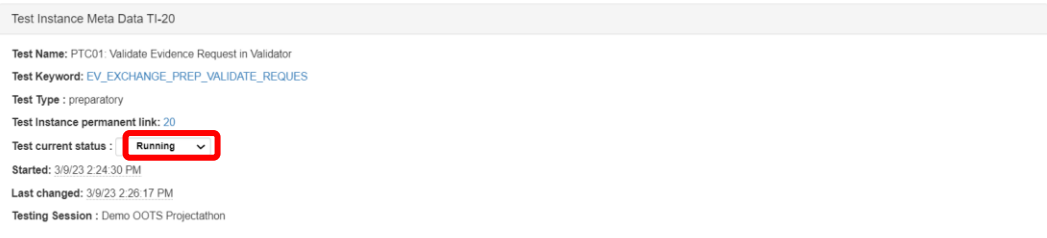
Information (Metadata)

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/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/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	Actor	Table
SYSTEM_TEST_ORG3_EV-REQUESTER	TEST_ORG3	testuser1	Procedure Portal	EV_EXCHANGE	EV_REQUESTER	

EV_EXCHANGE_PREP_VALIDATE_REQUES

user

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 'OOTS 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 steps, proof of test upload, and test result validation

Test Instance Steps

Step	Trans:	Trans. - Message Type	Opt.	Sending Actor	Receiving Actor	Status ✔	Validation Status
		- Instructions	R	SYSTEM_TEST_ORG3-REQUESTER - EV_REQUESTER	SYSTEM_TEST_ORG3_EV - EV_REQUESTER		

Desc: 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 [Proof of test] screenshot (including test case date/time) of the successful test case.

10

Logs: No comment, file or URL

✚ 😀 [Upload a file (click or drop)]

✖ ✔ ▶▶

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

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

[add Comment]

Back to top

5. 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 includes 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.
     - 🌐 button: Add the permanent link (URL) from the validator, EVS Client tool.
     - An "Upload File" button: to provide proof of testing such as log, print screen and messages.

   Please upload a print screen and / or a log file of your test here.

   Test Instance Steps

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 'OOTS 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 ✚ 🌐 Upload a file (click or drop)						
Step	Trans.		Opt.	Sending Actor	Receiving Actor	Status ✔	Validation Status

   Test current status :   Running ▾

6. After completed each test step, update the test step status by pressing the ✖ , ✔ or ⏩ buton:

   - *Failed* ✖ *:* the test has failed on this step (e.g. validation result KO).
   - *Completed* ✔ *:* the test step has been completed.
   - *Skiped* ⏩ *:* the step does not require any action from the user.

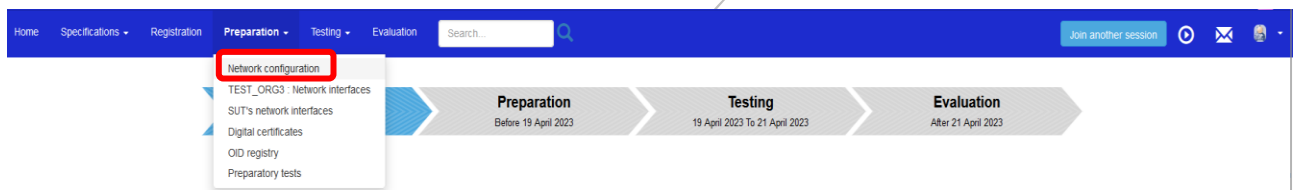7. Once all the test steps are completed, update the test instance status to:

8. Verified by vendor (success)

9. Completed with errors (Failed)
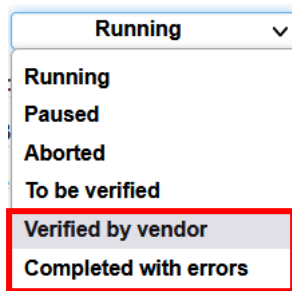
4 Connectivity tests

4.1 Configure your firewall

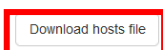1. Go to the Menu "Preparation > Network configuration"

1. Download the host white-list by clicking on the "Download hosts file" button.
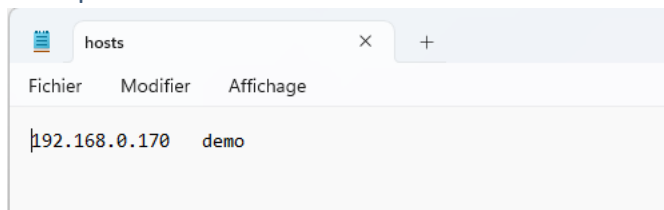

2. The hosts file contains all the nodes that are part of the « online-test-network » for the event.

    It can be used as:
    - data source to configure your firewall
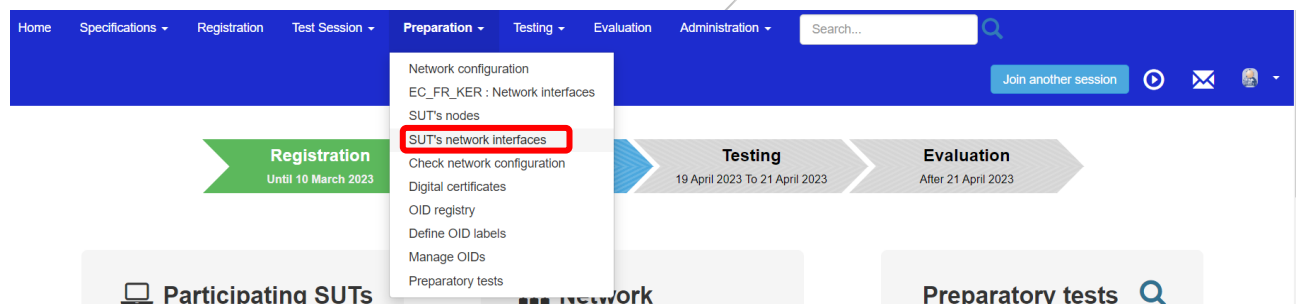   - hosts file in case of DNS delay or issue

Example hosts list:

3. You can use this file to update or verify your Firewall configuration.

4.2 Export the System Interfaces Network list

1. Go to the Menu "Preparation > SUT's network interfaces"

2. 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"

3. The approved systems Interfaces are listed, click on the "Export as Excel file" link to download the file.

4. A file called configurations.xls is downloaded.

   Example configurations.xls:

5. Convert the configurations.xls to csv format.

4.3 Execute the Connectivity Test script

1. 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

2. Execute the script as below with the converted SUT network interfaces list (configurations.csv) and save the test result into a file.

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

3. Report your connectivity results to the technical management team (EC-OOTS-SUPPORT@ec.europa.eu)