Test IdP Service User Guide

Introduction

The Test IdP is a SAML 2.0 IdP that is based on a SimpleSAML reference implementation and is intended to allow SP administrators to test that their SP can receive and correctly handle SAML responses from an IdP that may contain a range of different errors or unexpected data. It is focused on the needs of the R&S community and supports testing of release of the R&S entity attribute bundle.

There are two main steps in the use of the service. Firstly, it is necessary to establish trust by registering and uploading SP metadata to the service. After the metadata is parsed and checked a token is created and mailed to the SP administrator's email account that has been extracted from the SP's metadata to allow login to a unique Test IdP endpoint for the SP.

Once logged into the service the SP administrator is presented with a set of test scenarios and can choose to execute one or more of these in turn. The test scenarios are divided into three main categories:
- R&S Entity category tests.
- Behavioural tests.
- Generic Attribute profile tests.
- REFEDS Assurance Framework profile tests
- Error scenarios.
- Experimental profile tests

Once a test is selected the default attributes and values that will be released are shown. This default set may be modified by excluding attributes from the list, if required. Once the attributes for the test are confirmed it is then possible to login to the SP and verify the behaviour. Error logs can be viewed in the Test IdP interface.

Registration and Login

In order to register for the service complete the following steps.

1. Visit the Test IdP portal at …...
2. Either paste the SP metadata into the text box, upload the metadata file, or provide the metadata URL.
3. Select Login/Register.

Login / Register via SP metadata

Paste your SP metadata into the text field below.

```
<md:EntityDescriptor entityID="https://sp.example.com/shibboleth"
                xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
                xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata"
                xmlns:mdui="urn:oasis:names:tc:SAML:metadata:ui">

    <md:SPSSODescriptor protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
        <md:Extensions>
            <mdui:UIInfo>
                <mdui:DisplayName xml:lang="en">Test SP</mdui:DisplayName>
```

[Login / Register]

<Placeholder - replace with final GUI image>

4. The metadata is parsed and errors are indicated.
5. The metadata is checked against current eduGAIN best practice and guidance is given to help with conformance. < eduGAIN metadata checker>?
6. A token is generated and sent to the SP administrators email account.

GÉANT Test IdP is a SAML 2.0 SP testing service based on SimpleSAMLPHP and focused on the needs of R&E.
Please register for the service by uploading your SP metadata which will then be validated.

Once registered you can login to your Test IdP instance and select a user test profile.
User test profiles check different success and error scenarios for your SP and may be edited.

Then login to your SP as usual and any issues resulting from the test will be indicated.
Detailed logs are availble to assitst further investigation of any issues.

Your XML looks fine.
We have found 1 e-mail addresses provided in your metadata: mailto:alan.lewis@geant.org.
We have sent an account activation e-mail to the first e-mail address **mailto:alan.lewis@geant.org**.
If you didn't receive any e-mails, please contact our administrator and provide your token **c3a29b67b7c6bd275eb832de752cbcc9**.

<Placeholder - replace with final GUI image>

7. Check the email and click on the link provided.
8. You are logged into the Test IdP.

<Placeholder - replace with final GUI image>

Test execution

1. From the scroll box select one of the tests. Test are categorised as

    - R&S Entity category tests.
      The R&S entity category provides a way to release the minimum necessary amount of personal information to an SP. The tests in this section allow different combinations of the R&S entity category attributes to be released towards an SP to allow the SP to verify that they are correctly handled..

    - Behavioural tests
      An SP needs to be robust against the receipt of invalid or incorrect SAML assertion response information and needs to handle the data gracefully. The tests in this section provide a range of different scenarios of invalid attribute values, or missing or malformed attributes and allow the SP to verify they are able to manage these.

    - .Generic Attribute profile tests
      The tests in this section provide the ability to select from an extensive set of

attributes that may be used with R&E and release these towards the SP to verify it's ability to handle them if they are received.

- REFEDS Assurance Framework profile tests
  The tests in this section contain a number of the profile combinations from the R&S category tests section supplemented with assurance information described as defined by the REFEDS Assurance Framework.

- Error response tests
  Tests how the SP handles a SAML error response scenario.

- Experimental profile tests
  These tests contain profiles which are not currently standardised or being developed.

2. The test description and expected behavior are displayed to the right of the selected test in the scroll box.
3. If required, the attributes to be released can be customised from the default set by unchecking the checkboxes.
4. The values to be released for the selected attributes are shown below.
5. Select the 'Login' button to login to the SP.