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Signet Login

Website and services

Signet
Advania 2023



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1 INTRODUCTION

Signet Login is a part of Signet Mandate which handles authentication (and mandates) for other websites. The solution support SAML and JWT tokens and has been adapted to handle legacy SAML like innskaning.island.is delivers.

2 TECH

The solution is composed of a MVC website for authentication and giving mandates as well as a WebAPI REST API. Authentication for the website and webservice is by way of digital certificates.

3 URLS

Signet Mandate has a preproduction and production environment with the following urls.

3.1 PREPRODUCTION

- Web for handling mandates
 - <https://prufa.signet.is/login>
- Web to use as an authentication portal
 - <https://prufa.signet.is/login/Login/?id=<reqid>&path=<path>&authid=<authid>>
- Get current certificate used for signing tokens
 - <https://prufa.signet.is/login/login/cert>
- Web API
 - <https://prufa.signet.is/mandateservice>

3.2 PRODUCTION

- Web for handling mandates
 - <https://login.signet.is/>
- Web to use as an authentication portal
 - <https://login.signet.is/Login/?id=<reqid>&path=<path>&authid=<authid>>
- Get current certificate used for signing tokens
 - <https://login.signet.is/login/cert>
- Web API
 - <https://login.signet.is/service>

4 WEBSITE

To use Signet Login for authentication you redirect your user to the appropriate URL (see chapter 3 above) with your allotted id and some optional parameters.

4.1 ATTRIBUTES

The login website supports these query parameters.

- id

- The id you have been allotted by the Signet Team
- path
 - An optional parameter in the form of an URL path which will be appended to the end of the registered return URL.
- authid
 - An optional parameter in the form of GUID or number which will be included in the token returned after authentication. Helpful in linking to a website session.
- onbehalf
 - An optional parameter which will require the user to use a valid mandate for authentication. If the user has no mandate it will not be redirected to the return URL after authentication.

4.2 RETURNED TOKEN

After authentication the user is returned (via POST) to a registered return url with an issued token containing information on the user who authenticated. The token is returned via the post parameter „token“ unless requested otherwise and can be JWT or SAML.

Websites which have been using innskraning.island.is for authentication can easily connect to Signet Login as service providers can request getting SAML tokens in the same form as Innskraning.island.is provides (same attributes). All that is needed is to trust the token issuer (referred, certificate etc)

Signet Login will normally supply the users name, national registry number and the authentication certificate.

Signet Login can provide various extra attributes in the token such as address, marital status, gender, used certificate etc.

Example tokens are supplied in the appendix of this document.

5 WEB API

The webservice has a controller for handling token info and validation. There is also a swagger interface on the service to help with integration.

5.1 WEBSERVICE CLASS

The API uses the following classes for requests and responses.

5.1.1 MANDATETOKENREQUEST

When requesting signed mandate after authentication a MandateRequest is used.

- Token
 - The returned token after authentication

5.1.2 VALIDATETOKENREQUEST

When validating a returned token a ValidateTokenRequest is used

- Token
 - The returned token after authentication

- Audience
 - The audience/destination of token

5.1.3 MANDATEDATA

When getting mandate information the response is a MandateData.

- ID
 - GUID
 - ID of mandate
- HolderSSN
 - String[]
 - National registry numbers of mandate holders
- OnBehalfSSN
 - string
 - National registry number of identity giving mandate
- GiverSSN
 - string
 - National registry number of person giving mandate
- Document
 - Byte[]
 - The signed PDF mandated
- Data
 - KeyValuePair<string, string>[]
 - Array of KVP with mandate values
- Added
 - date
 - Time when mandate was saved
- Signed
 - date
 - Time when mandate was signed
- ValidFrom
 - date
 - Time when mandate gets valid
- ValidTo
 - date
 - Time mandate is valid to
- State
 - AuthorizationState
 - State of mandate (Issuance = 0, Revocation = 1)

5.2 METHODS

The following methods are available in the token webservice (<service url>/api/token)

5.2.1 GETMANDATE

To get them andate referenced in an issued token tou can call the GetMandate method. The method accepts a MandateTokenRequest and responds with MandateData if the mandate is found from the token.

5.2.2 VALIDATE_TOKEN

To validate an issued token you can call the ValidateToken method. The method accepts a ValidateTokenRequest and responds with true or false if the token is valid.

5.2.3 GET_AUTHENTICATION_DATA

To get the users authentication data (issued authentication from identiy provider i.e. Auðkenni) you can call the GetAuthenticationData method. The method accepts a MandateTokenRequest and responds with the authentication data (base64 encoded string) if the token and its authentication data is found.

6 APPENDIX

Below are some example tokens issued by Signet Login.

6.1 NORMAL JWT TOKEN

```
eyJhbGciOiJSUzI1NiIsImtpZCI6IjU4Njk0MEYwQUlWODBERDRDMkQzQjM1REM5MDI5QkFFODR-
FMDRFNzciLCJ0eXAiOiJKV1QiOiJ0eXAiOiJKV1QiOiJ0eXAiOiJKV1QiOiJ0eXAiOiJKV1QiOjE-
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DWezZuB5SEOTTN_GcmoZZWm2PlsXb82k-
C4HrgtyQxz49ocsoH3hqIoi8lWMg_7LBSHk716zMUa-
QHxNfBpi_m8fttmZqfJkkyxh6aTDxyFP8kvhq3Pz67RLXPn8-RRPqA
```

6.2 NORMAL SAML TOKEN

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4fed-9652-9855f52c913f" Version="2.0" IssueInstant="2023-11-
08T15:34:50.8516772Z" Destination="https://prufa.signet.is/"
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xmlns="urn:oasis:names:tc:SAML:2.0:assertion">Signet
Mandate</Issuer><Signature
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hod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"
/><SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-
sha256" /><Reference URI="#_5f7aa1d7-4f40-4fed-9652-
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```

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/></SubjectConfirmation></Subject><Conditions NotBefore="2023-11-
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```

```

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SAML:2.0:attrname-format:basic"><AttributeValue xsi:type="xsd:string">+354-
1111111</AttributeValue></Attribute></AttributeStatement></Assertion></Resp
onse>

```

6.3 INNSKRANING.ISLAND.IS COMPATABLE SAML

```

<?xml version="1.0" encoding="UTF-8"?><Response
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" ID="_8bdb8cae-4705-
4888-b9eb-164d00f6fae9" Version="2.0" IssueInstant="2023-11-
08T15:39:10.3423716Z" Destination="https://prufa.signet.is/"
xmlns="urn:oasis:names:tc:SAML:2.0:protocol"><Issuer
xmlns="urn:oasis:names:tc:SAML:2.0:assertion">Signet
Mandate</Issuer><Signature
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/><SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-
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/><Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"
/></Transforms><DigestMethod
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/><DigestValue>+5W7yyKCzON4747v8TSkHbIM036GQ9Fa8HIunUzmu0k=</DigestValue></

```



```

Reference></SignedInfo><SignatureValue>Cn51P3LJCLza12jkfpuNNqv0CvB4rM4pne/i
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