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Signet Login

Website and services

Signet
Advania 2024



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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.
 - onbehalf = 0 means the user **can't** select/use any mandates
 - onbehalf = 1 means the user **must** select a mandate

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.

4.3 INNSKRANING.ISLAND.IS COMPATABLE

When a service provider which is using innskraning.island.is wants to migrate to Signet Login very few adjustments will have to be made and will be listed below.

4.3.1 TRUSTING THE SIGNET SAML SIGNING CERTIFICATE

The SAML signing certificate which Signet Login uses is issued by **Fullgilt audkenni 2021** and issued to **Signet Advania** compared to **Fullgilt audkenni** and **Innskraning Island.is**.

Signet login certificate issuer:

SERIALNUMBER = 5210002790
CN = Fullgilt audkenni 2021
2.5.4.97 = NTRIS-5210002790
O = Audkenni ehf.
C = IS

Signet login signing certificate:

SERIALNUMBER = 5902697199

CN = Signet Advania
2.5.4.97 = NTRIS-5902697199
O = Advania Ísland ehf.
C = IS

Innskraning.island.is certificate issuer:

CN = Fullgilt audkenni
OU = Utgefandi fullgildra skilrikja
O = Audkenni hf.
SERIALNUMBER = 5210002790
C = IS

Innskraning.island.is signing certificate:

CN = Innskraning Island.is
SERIALNUMBER = 6503760649
OU = Auðkenning og undirritun
OU = Bunadarskilriki
C = IS
O = Þjóðskrá Íslands
OU = 20220516123320

A common certificate validation had lines like

```
cert.Issuer.StartsWith("CN=Fullgilt audkenni") &&  
cert.Subject.Contains("SERIALNUMBER=6503760649")
```

Which will have to be changed to

```
cert.Issuer.Contains("CN=Fullgilt audkenni 2021") &&  
cert.Subject.Contains("SERIALNUMBER=5902697199")
```

4.3.2 LOGIN URL

The login url(link) will have to be changed from <https://innskraning.island.is/login.aspx?id=<reqid>> to <https://login.signet.is/login?id=<reqid>>. Signet login also supports the **path** and **authid** parameters like innskraning.island.is.

5 WEB API

The webservice has as 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)

5.1.4 VALIDATETOKENRESPONSE

When validating a returned token with `ValidateTokenDetailed` a `ValidateTokenResponse` object is returned.

- `FoundInDB`
 - `bool`
 - Was the token found in Signet database
- `BelongsToAccount`
 - `bool`
 - Does the token belong to account
- `SignatureOK`
 - `bool`
 - The the token signature OK
- `ValidityOK`
 - `bool`
 - Is the token validity ok (valid at current time)
- `AudienceOK`
 - `bool`
 - Does the token destination match the audience
- `AllOK`
 - `bool`
 - Are all the checks OK

5.2 METHODS

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

5.2.1 GETMANDATE

To get the mandate referenced in an issued token you 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 VALIDATETOKEN

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 VALIDATETOKENDETAILED

To validate an issued token you can call the `ValidateToken` method. The method accepts a `ValidateTokenRequest` and responds with `ValidateTokenResponse` with detailed validation information.

5.2.4 GETAUTHENTICATIONDATA

To get the users authentication data (issued authentication from identity 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.


```
yPoJCnoDT50FkserP0zv9VADC1sqro5dHYgRI9yFwqh+6KN2C+MXl7waqC8d+XT1oj/t05bdupT
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```

```
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format:basic"><AttributeValue xsi:type="xsd:string">+354-
111111</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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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="#_8bdb8cae-4705-4888-b9eb-
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/><Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"
/></Transforms><DigestMethod
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```

```

BAL4PgInUEqo+9EUpbhkvEfwsCReEo13B8jyZPr7DbF1jNkoYJOR5tb0Fm4k3jHbCbTp8c4/6gB
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IssueInstant="2023-11-08T15:39:10.3423716Z"
xmlns="urn:oasis:names:tc:SAML:2.0:assertion"><Issuer>Signet
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Mandate</NameID><SubjectConfirmation
Method="urn:oasis:names:tc:SAML:2.0:cm:bearer"><SubjectConfirmationData
Address="127.0.0.1" NotOnOrAfter="2023-11-08T15:49:10.3423716Z"
Recipient="https://prufa.signet.is/"
/></SubjectConfirmation></Subject><Conditions NotBefore="2023-11-
08T15:38:10.3423716Z" NotOnOrAfter="2023-11-
08T15:49:10.3423716Z"><AudienceRestriction><Audience>prufa.signet.is</Audie
nce></AudienceRestriction></Conditions><AuthnStatement AuthnInstant="2023-
11-08T15:39:10.3423716Z"><SubjectLocality Address="172.16.193.82"
/><AuthnContext><AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classe
s:TLSCClient</AuthnContextClassRef></AuthnContext></AuthnStatement><Attribut
eStatement><Attribute Name="UserSSN"
NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-
format:basic"><AttributeValue
xsi:type="xsd:string">1234567890</AttributeValue></Attribute><Attribute
Name="Name" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-
format:basic"><AttributeValue xsi:type="xsd:string">Test
Notandi</AttributeValue></Attribute><Attribute Name="DestinationSSN"
NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-
format:basic"><AttributeValue
xsi:type="xsd:string">5902697199</AttributeValue></Attribute><Attribute
Name="Authentication" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-
format:basic"><AttributeValue xsi:type="xsd:string">Rafræn
símaskilríki</AttributeValue></Attribute><Attribute Name="UserAgent"
NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-
format:basic"><AttributeValue xsi:type="xsd:string">Mozilla/5.0 (Windows NT
10.0; Win64; x64; rv:109.0) Gecko/20100101
Firefox/119.0</AttributeValue></Attribute><Attribute Name="IPAddress"

```

```
NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-  
format:basic"><AttributeValue  
xsi:type="xsd:string">127.0.0.1</AttributeValue></Attribute><Attribute  
Name="Mobile" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-  
format:basic"><AttributeValue xsi:type="xsd:string">+354-  
1111111</AttributeValue></Attribute></AttributeStatement></Assertion></Resp  
onse>
```