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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.
  - onbehalf = 0 means the user **can't** select/use any mandates
  - onbehalf = 1 means the user **must** select a mandate
- returnUrl
  - An optional parameter for a different url that you user will be sent to after authentication.
  - The URL must be registered in the list of supported URLs for the account. Can be done by contacting the Signet Team or on the management portal.
  - The path parameter will be ignored when returnUrl is provided.

## 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 innskranning.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 **Innskranning 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 = Innskranning 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://innskranning.island.is/login.aspx?id=<reqid>> to <https://login.signet.is/login?id=<reqid>>. Signet login also supports the **path** and **authid** parameters like innskranning.island.is.

#### 4.3.3 TOKEN VALIDATION

Please make sure to validate the token which is returned from Signet Login. Validations that need to be performed are but not limited to:

- Correct destination in token
- Correct signer certificate
- Correct issuer of certificate

- Token signature is valid (token has not been modified after signature)
- Token validity is valid (valid at current time)
- Fetch authenticated attributes from inside signed part of token

## 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
  - G UID
  - 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 them andate 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 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

```
eyJhbGciOiJSUzI1NiIsImtpZCI6Ijk4MEYwQUIwODBERDRDMkQzQjM1REM5MDI5QkFFODR
FMDRFNzcilCJ0eXAiOjJKV1QifQ.eyJqdGkiOiIxZDc0MTFhNi04YTM3LTQ5YTktYmV1YS1jMT1
lYzZiOGQyYmYiLCJuYW1laWQiOiiXmjM0NTY30DkwIiwiU1NOIjoiMTIzNDU2Nzg5MCIsIk5hbW
UiOjJUZXN0IE5vdGFuZGkiLCJNb2JpbGUoiiXMTExMTExIiwibmJmIjoxNjk5NDUzOTI0LCJle
HAIoje20Tk0NTgxMjQsImlhdCI6MTY50TQ1NzUyNCwiaXNzIjoicHJ1ZmEuc2lnbmV0LmlzIiwi
YXVkJioiaHR0cHM6Ly9wcnVmYS5zaWduZXQuaXMvIn0.fC8cDZB3PI3pVFFZos46odhpRhUTiAa
a9UpS7psKwfnehkDnqG1gLNU0drj4sK03x70zRyUpnZ8MjLG2tw-SV_7eDjim29ZZRIQ5c-
bB2GZz57fUqo6bkt6vhDbAz40b4oLqkjQ-
TQq_DPe_u0aQvVi4pqC_joDwLvHBYhsG30RWb5AeZDGCSnzgbjmkhUs8kK2LEA8CQqfaBEsQHMR
DWezZuB5SEOTTN_GcmoZZWm2P1sXb82k-
C4HrgtyQxz49ocsoH3hqIoi81WMg_7LBShk716zMua-
QHXnNFBpi_m8fttmZqfJkkyxh6aTDxyFP8kvhq3Pz67RLPXnPn8-RRPqA
```

### 6.2 NORMAL SAML TOKEN

```
<?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="_5f7aa1d7-4f40-
  4fed-9652-9855f52c913f" Version="2.0" IssueInstant="2023-11-
  08T15:34:50.851677Z" 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
  xmlns="http://www.w3.org/2000/09/xmldsig#"><SignedInfo><CanonicalizationMet
  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-
  9855f52c913f"><Transforms><Transform
  Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"
  /><Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"
  /></Transforms><DigestMethod
  Algorithm="http://www.w3.org/2001/04/xmlenc#sha256"
  /><DigestValue>Iyzbodwmv/+v559FnTX0jsg30yxnKjDvSSfx5ZxiEMQ=</DigestValue></
```

Reference></SignedInfo><SignatureValue>SW93RiQs9Dc9vb6q7oDGXx0GSEEPUvIBU++uVFVQq3ItkWdy8nkQ+y6kZiTzkCXcMUK90kWuf/a9eqdMA+xb/Qcp9aqYA9pELOMxwyvAb1IWgd/a/pjsXCyJf3tvULUMMWBqwi1FwcB7gbNC/auaLYZLeqqK3pbHe3qWW9MM2rcFwyL8jSWaRwiVXKj04XT9UTS8xgzjM59msAwNpptDXwGF07n/fIxPxyap1hi8ESgtmI9/ARWVDSLbK4vUb8vlookNtgtkbmhIxWKFqlaFTmjv+8SkWis1skXb7qm+6evRbsPw+8ourewo3l7Hpeyjo65xVS1/GuZj00/k6Ky3A==</SignatureValue><KeyInfo><X509Data><X509Certificate>MIIF2zCCBM0gAwIBAgIDJFaqMA0GCSqGSIb3DQEBCwUAMH4xCzAJBgNVBAYTAK1TMRMwEQYDVQQF Ewo1MjEwMDAyNzkwMRUwEwYDVQQKEwxBdWRrZW5uaSB0Zi4xJzA1BgNVBAstH1V0Z2VmYW5kaSBmdWxsZ21sZHJhIHNravxyawtqYTEaMBgGA1UEAxMRRnVsbGdpbHQgYXVka2VubmkwHhcNMjIwMjAxMDkxNDA3WhcNMjQwMjAxMDkxNDA3WjCBsTEXMBUGA1UECxMOMjAyMjAxMzEwOTQwMDAxHTAbBgNVBAoMFEFkdmFuawEgw41zbGFuZCBlaGYuMQswCQYDVQQGEwJJUzEYMBYGA1UECxMPQnVuYWRhcnNraWxyawtpMSIwIAYDVQQLDB1BdcOwa2VubmluZyBvZyB1bmRpcaJpdHVuMRMwEQYDVQQFEwo10TAyNjk3MTk5MRcwFQYDVQQDEw5TaWduZXQgQWR2Yw5pYTCCASIwDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAL4PgInUEqo+9EUpbhkvEfwsCReEo13B8jyZPr7DbF1jNkoYJ0R5tbOFm4k3jHbCbTp8c4/6gByPoJCnoDT50FkserP0zv9VADC1sqro5dHYgRI9yFwqh+6KN2C+MX17waqC8d+XT1oj/t05bdupTQ3f/pMVDSrNzQprMMZ4rfi8IUWXUMlofhrS/Gsoo+Yrdfr1BDYDI7QoCSydveB0p1+PU/Y88iyd5wFlxsceZEwq97oJcVsNoCFAzhiwRb1hBRLQ/B1fuw2bwssODwaDi33zFSFP3838yqfmZ2v0FXM oPs7UhG3124vMRsbeUv8Vd4PjJowF5JpXbMrnTsRykYUCAwEAAA0CAiwwggIoMAwGA1UdEwEB/wQCMAAwggELBgNVHSAEggECMIH/MIH8BglggmABAQgEBAQIwge4wgcQGCCsGAQUFBwICMIG3GoG0V GhpcyBjZXJ0aWZpY2F0ZSBpcyBpbmR1bmR1ZCmb3IgZGlnaXRhbCBzaWduYXR1cmVzIGFuZCBhdXRoZW50aNhdGlvb14gVGhpcyBjZXJ0aWZpY2F0ZSBmdWxmaWxzIHRoZSBzXF1aXJ1bwVudHMgb2Ygbm9ybWFsaXp1ZCBjZXJ0aWZpY2F0ZSBwb2xpY3kgKE5DUCkgZGVmaW51ZCBppiBFVFNJIFRTIDEwMiAwNDIuMCUGCCsGAQUFBwIBFhlodHRwczovL3J1cG8uYXVka2VubmkuaXMvMHcGCCsGAQUBwEBBGswaTAjBgggrBgfEFBQcwAYYXaHR0cDovL29jc3AuYXVka2VubmkuaXMwQgYIKwYBBQUHMAKGNmh0dHA6Ly9jZHAuaXNsYW5kc3JvdC5pcy9za21scmlraS9mdWxsZ21sdGF1ZGt1bm5pLnA3YjALBgNVHQ8EBAMCBeAwHwYDVR0jBBgwFoAUwik+hv+GxNo1H2mmpP8BgzxKM6kwQwYDVR0fBDwwOjA4oDagNIYyaHR0cDovL2Nybc5hdWRrZW5uaS5pcy9mdWxsZ21sdGF1ZGt1bm5pL2xhdGVzdC5jcmwwHQYDVR00BYEFL+65R/0Sev5/7Q3/y2w1/6UhpHaMA0GCSqGSIb3DQEBCwUAA4IBAQAHmlbwk6w1WhX0CikuMBu40ET9/kY4RuH41G0ioNd6sXTcRq193PgLRZhxpbeBvLqNEci13+AAy61uaYWgkpMoVUuvvbApkm/8+EziDOMEMaXF1YDtzNvxpXUHH6N41R8o0Wfh2KgtfYDMRkDaWfahoFBQ0zaEjS3xv17hushmfG40/E1GhKmUOH6f50JZDmksi4BoC5MToOxpXwdyKQvwBCfIaONGxmtkBnC+X7/H+SzY2NUF/hE/huw/os10mgX067tRGtDoSd386HoEXjh/qF/4j1Qg+vIszpzAxNHPnZkSZNP5+j+TeI6I8IfIn212jj0EJZ6zu4PGtqBM67S</X509Certificate></X509Data></KeyInfo></Signature><Status><StatusCode>Value="urn:oasis:names:tc:SAML:2.0:status:Success" /></Status><Assertion Version="2.0" ID="\_2fb084db-36b8-47c1-be19-970524287206" IssueInstant="2023-11-08T15:34:50.8516772Z" xmlns="urn:oasis:names:tc:SAML:2.0:assertion"><Issuer>Signet Mandate</Issuer><Subject><NameID NameQualifier="signet.is">Signet Mandate</NameID><SubjectConfirmation Method="urn:oasis:names:tc:SAML:2.0:cm:bearer"><SubjectConfirmationData Address="127.0.0.1" NotOnOrAfter="2023-11-08T15:44:50.8516772Z" Recipient="https://prufa.signet.is/"></SubjectConfirmation></Subject><Conditions NotBefore="2023-11-08T15:33:50.8516772Z" NotOnOrAfter="2023-11-08T15:44:50.8516772Z"><AudienceRestriction><Audience>prufa.signet.is</Audience></AudienceRestriction></Conditions><AuthnStatement AuthnInstant="2023-11-08T15:34:50.8516772Z"><SubjectLocality Address="172.16.193.82"></SubjectLocality><AuthnContext><AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:X509</AuthnContextClassRef></AuthnContext></AuthnStatement><AttributeStatement><Attribute Name="UserSSN"><NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:basic"><AttributeValue>xsi:type="xsd:string">1234567890</AttributeValue></Attribute></AttributeStatement>

```

Name="Name" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-
format:basic">><AttributeValue xsi:type="xsd:string">Test
Notandi</AttributeValue></Attribute><Attribute Name="Certificate"
NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-
format:basic"><AttributeValue
xsi:type="xsd:string">MIIFUTCCBDmgAwIBAgIIGn8qoiTKK+cwDQYJKoZIhvcNAQELBQAwg
ZcxCzAJBgnVBAYTak1TMRUwEwYDVQQDAxBZHzbmlhIGVoZi4xIzAhBgNVBAsMG1V0Z2VmYW5k
aSBidW5hZGFyc2tpbHJpa2phMRYwFAYDVQQLDAnawxaXNraWxyaWtpMRMwEQYDVQQFEwo10TA
yNjk3MTk5MR8wHQYDVQQDBZCdw5hZGFyc2tpbHJpa2kgUHJvZnVuMB4XDTIzMDIyNzEzMTAxN1
oXDTI1MDIyNjEzMTAxN1owgYUxCzAJBgnVBAYTak1TMQ0wCwYDVQQKDARUZXN0MQ0wCwYDVQLD
AQxMDQyMRYwFAYDVQQLDAnawrYXNraWxyaWtpMRQwEgYDVQQLAtBdcOwa2VubmluZzETMBEG
A1UEBRMKMTIzNDU2Nzg5MDEVMBMGa1UEAwMVGVzdCBOb3RhbmRpMIIBiJANBhkqhkIG9w0BAQE
FAAOCAQ8AMIBCgKCAQEazGnyW5nAD5mJaokYs47tNVgT7f5cBT00G8LE6sZd1ftQs0aOC5Itjb
wIpE0cik31s5btCeZTR17BwHb7ggDbqp73qwjxDWe4UXt1MKQxTt+MP8+jCb09j2m0t7AmiY+i
U8rGa8JQoOPM/wAKsryog50T/qYgURJydZHMorUSXbArYi1ECZwal+JFkbrQmBt+Sb0YOJFP/zj
RHMcUGw4I7mKy1W64dwX5IrI3DLaQw01g8BLIaVW4au9cBDZGD6UImF8agQMVlWaz26z/x7pal
IX6PuJtm03Q4SUQuQ+VVVE7nK1cnkC0XLfMIjtL7W/ahJxuqzW343r/joWI49QQIDAQABo4IBrz
CCAaswUAYIKwYBBQUHAQEERDBCMEAGCCsGAQUFBzABhjRodHRwczovL2N1cnRzLmFkdmFualEua
XMvZWpiY2EvCHVibGljd2ViL3N0YXR1cy9vY3NwMB0GA1UdDgQWBBSYjh/oBL3Mgumcun7PxujD
iC194zAMBgNVHRMBAf8EAjAAMB8GA1UdIwQYMBaAFIMPw0bdmwExR+imDBA99d2JjiTlMIHPBgn
VHR8EgccwgcQwgcGggb6ggbuGgbhodHRwOi8vY2VydHMuYWR2YW5pYS5pcy9lamJjYS9wdWJsaW
N3ZWIvd2ViZG1zdC9jZXJ0ZG1zdD9jbWQ9Y3JsJmlzc3V1cj1DTj1CdW5hZGFyc2tpbHJpa2k1M
jBQcm9mdW4sU049NTkwMjY5NzE5OSxPVT1NaWxaXNraWxyaWtpLE9VPVV0Z2VmYW5kaSUyMGJ1
bmFkYXJza2lscmlramEsTz1BZHzbmlhJTIwZWhmLixDPu1TMA4GA1UdDwEB/wQEAvIF4DAnBgN
VHSUEIDAEBggrBgeFBQcDAgYIKwYBBQUHAwQGCCsGAQUFBwMBMA0GCSqGSIb3DQEBCwUAA4IBAQ
AMFfLcCrbM1vD8FeeDJQhfBVzzLFTiy5VpfQKnWRnJKorBcLo6xeymJmR3bdZBH1+Jgdo7Lfw4K
ke6WzdzjFRwbSVA9aGYX7W1AZxS3tnD/U0Z8gQsSsWQHcTR+KZFMyz/Aj3YtP1VXgCLUsQLARTq
f+64VdcbHLaC7OKSBG8uTPFo3GxmbMBj1jhCXQFD2yfWsQZ017i6aS+yMLtdgAMcqAnT3by+XA4
ZmRwPL/HZ+MIZB4RSfHJA3uxAJPELHKWiMSxM2RX4IKcqgTfG0m7dxqBWCpWPCBnC1K7bRVCg8t
9bc3PRt0Q4IQ1Njw7ep2gDuJy/knMHpemgzkgG3BWT</AttributeValue><Attribute><Attribute Name="Mobile" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:basic"><AttributeValue xsi:type="xsd:string">+354-11111111</AttributeValue></Attribute></AttributeStatement></Assertion></Response>

```

### 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
 xmlns="http://www.w3.org/2000/09/xmldsig#"><SignedInfo><CanonicalizationMethod 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-164d00f6fae9"><Transforms><Transform
 Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"
 /><Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#" /></Transforms><DigestMethod
 Algorithm="http://www.w3.org/2001/04/xmlenc#sha256" />

```

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