

# Web services reference

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# validate-domain

## Definition

- This operation allows to validate the user domain and return the IDP owner of the user.

## URL

- <console-domain>/webservice/federation/rest/validate-domain

## Method

- POST

## Headers

- Accept = "application/json"
- Content-Type = "application/json"

## Authentication

- Use the "admin" user of the Soffid IAM Console

## Request (body JSON)

- domain → domain of the user (right side of the email)

```
{
  "domain": "arxus.eu"
}
```

## Response (JSON)

- exists → [yes|no]
- identityProvider → identity provider public ID

```
{
  "exists": "yes",
  "identityProvider": "http://stasts-sof.arxus.eu/adfs/services/trust"
}
```



# validate-credentials

## Definition

- This operation allows to validate the credentials of the user against Soffid.

## URL

- <console-domain>/webservice/federation/rest/validate-credentials

## Method

- POST

## Headers

- Accept = "application/json"
- Content-Type = "application/json"

## Authentication

- Use an account with **federation:serviceProvider** permission

## Request (body JSON)

- user → user (or nick or alias)
- password → password of the user
- identityProvider → identity provider public ID
- serviceProviderName → service provider which requests the user authentication
- sessionSeconds → max time for the user session inactivity

```
{
  "user" : "edmond.halley",
  "password" : "12345",
  "identityProvider" : "my-service-provider",
  "serviceProviderName" : "https://idp.soffid.com",
  "sessionSeconds" : "3600"
}
```

## Response (JSON)

- authentication → [yes|no]
- principalName → account name
- failureMessage → if authentication="no", a description text of the error
- user → account owner identity standard attributes
- attributes → account owner identity custom attributes
- sessionId → session identifier

```
{
  "valid": true,
  "sessionCookie":
"_2307e8b5566ba600be64508a132f7f40c4578928733f2c3c:hRoFimsCGZSau7zjbWeVocTv13WAaui7dj00A7F39d
M0R+daKHPQVi2WiAbhB/rV776S0TW5JXq7/9HjV0zo0h4E7AW72tCUD9I/8UD4VP5oTRWgR6xTP3mUwhn5NCuiHO
E02kuITf6l3y6ZrUOBA6qVFo/Twlfhww9dZ2l7NrdrO/s3K40L",
  "attributes": {},
  "user": {
    "lastName": "Halley",
    "createdByUser": "csvIDs",
    "modifiedDate": "2017-12-15T11:01:02+01:00",
    "userType": "I",
    "shortName": "edmond.halley"
  },
  "identityProvider": "soffid"
}
```

# expire-session

## Definition

- This operation allows to close a session created by either validate-credentials or parse-saml-response. If you want to get real global logout, this method invocation is not enough. You should also use the generate-saml-logout-request method.

## URL

- <console-domain>/webservice/federation/rest/expire-session

## Method

- POST

## Headers

- Accept = "application/json"
- Content-Type = "application/json"

## Authentication

- Use an account with **federation:serviceProvider** permission

## Request (body JSON)

- sessionId → session id obtained from prior parse-saml-response or validate-credentials invocation

## Response (JSON)

- sessionId → id of closed session

```
{
  "sessionId" :
  "_8164940b408c1508dfd84525a3ef568475f317085cf36e7d:rvJgZnMfsWUbQWIXdhTcVGgl3mC2qXJC..."
}
```

# generate-saml-request

## Definition

- This operation allows to generate a SAML request to an external IDP.

## URL

- <console-domain>/webservice/federation/rest/generate-saml-request

## Method

- POST

## Headers

- Accept = "application/json"
- Content-Type = "application/json"

## Authentication

- Use an account with **federation:serviceProvider** permission

## Request (body JSON)

- user → user (or nick or alias)
- identityProvider → identity provider public ID
- serviceProviderName → service provider which requests the user authentication
- sessionSeconds → max time for the user session inactivity

```
{
  "user" : "lucasfr@soffid.poc",
  "identityProvider" : "http://stasts-sof.arxus.eu/adfs/services/trust",
  "serviceProviderName" : "http://portal.arxus.com",
  "sessionSeconds" : "3600"
}
```

## Response (JSON)

- method → [POST|GET]
- parameters

- ```
{
  "method": "urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST",
  "parameters": {
    "RelayState": "_457cab260c4948ef4c6d35a67cac000d3348d1ec48f53215",
    "SAMLRequest": "PD94bWwgdmVyc2lvbjo0MS4wliBlbmNvZGluZz0iVVRGLTgiPz48c2FtbDJwOkF1dGhuUmVxdWVzdCB4bWxuczpzYW1sMnA9InVybjpvYXNpczpuYW1lc3p0YzptQU1MOjluMDpwcml9b2NvbClgQXNzZXJ0aW9uQ29uc3VtZXJlZXJ2aWN0Pjwvc2FtbDJwOkF1dGhuUmVxdWVzdD4="
  },
  "url": "https://stasts-sof.arxus.eu/adfs/ls/"
}
```

```
{
  "method": "urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST",
  "parameters": {
    "RelayState": "_457cab260c4948ef4c6d35a67cac000d3348d1ec48f53215",
    "SAMLRequest": "PD94bWwgdmVyc2lvbj0iMS4wIjBlbmNvZGluZz0iVVRGLTgiPz48c2FtbDJwOkF1dGhuUmVxdWVzdCB4bWxuczpzYW1sMnA9InVybjpvYXNpczpuYW1lczpYzpqTQU1MOJluMDpwcm90b2NvbCIGQXNzZXJ0aW9uQ29uc3VtZXJTZXJ2aWNIVVJMPSJodHRwciovL3BvcnRhbnRhbC5hcnh1cy5jb206NDQzL1NBTVwtcmVzcG9uc2UiIEZvcmlNQXV0aG49ImZhbnHNIIiBJRD0iXzQ1N2NhYjI2MGMMOOTQ4ZWY0YzZkMzVhNjdjYWMMwMDBkMzM0OGQxZWMM0OGY1MzlXNSIgSXNzdWVJbnN0YW50PSlyMDE4LTAxLTExVDEyOjEzOm5hbWVzOnRjOINmFzc2VydGlubil+aHR0cDovL3BvcnRhbnRhbC5hcnh1cy5jb208L3NhbWwyOkZlc3Vlcj48c2FtbDI6U3ViaTUV6Mi4wOmFzc2VydGlubil+PHNhbWwyOk5hbWVJR09jaW9uYXNpczpuYWM1lczp0YzpqTQU1MOJEUmtPuYW1laWQtZm9ybWF0OmVtYWIsQWRkcmlzcyYHVjYXNmckBzb2ZmaWQucG9zPC9zYW1sMjp0YW1sISUQ+PC9zYW1sMjpTdWJqZWNOPlJwvc2FtbDJwOkF1dGhuUmVxdWVzdD4="
  },
  "url": "https://stasts-sof.arxus.eu/adfs/ls/"
}
```



# parse-saml-response

## Definition

- This operation allows to validate a SAML response generated by another external IDP that support SAML protocol.

## URL

- <console-domain>/webservice/federation/rest/parse-saml-response

## Method

- POST

## Headers

- Accept = "application/json"
- Content-Type = "application/json"

## Authentication

- Use an account with **federation:serviceProvider** permission

## Request (URL parameter)

- autoProvision → [false|true] (currently only false functionality is implemented)
- response
  - RelayState → identifier of the ticket of the SAML response
  - SAMLResponse → encoded SAML response
- protocol → use always “urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST”
- serviceProviderName → service provider which requests the user authentication

```
{  
  "autoProvision" : false,  
  "response" : {  
    "RelayState": "_523866242f943b4c63234dc8942ffc2f08cea03aa129a4e2",  
    "SAMLResponse": "PD94bWwgdmlVyc2lvcj0iMS4wIjBlbmNvZGluZz0iVVRRGLTgiPz48c2FtbDJwOkF1dGhuUmVxdWVzdCB4bWxuczpzYW1sMnA9InVybjpvYXNpczpuYW1lczp0YzptQUU1MOjluMDpwcm90b2NvbClgQXNzZXJ0aWw9uQ29uc3VtZXJTZXJ2aWN
```

```
ISW5kZXg9IjEiEFzc2VydGlvbkNvbnN1bWVyU2VydmljZVVSTD0iaHR0cHM6Ly9hYmM6NDQzLy94eHgiIERlc3Rpb

mF0aW9uPSJodHRwczovL3N0YXN0cy5hcnh1cy5ldS9hZGZzL2xzLyIgRm9yY2VBdXRobj0iZmFsc2UiIEEPSJfNTI
zODY2MjQyZjk0M2I0YzYzMjM0ZGM4OTQyZmZjMmYwOGNIYTAzYWExMjlhNGU

yliBjc3N1ZU luc3RhbnQ9IjIwMTctMTItMjUUMTQ6NTU6MjAuODYyWiIgUHJvdG9jb2xCaW5kaW5nPSJ1cm46b2Fza
XM6bmFtZXM6dGM6U0FNTDoyLjA6YmIuZGluZ3M6SFRUUC1SZWRpcmVjdCIGV

mVyc2lrbj0iMi4wlj48c2FtbDI6SXNzdWVyIHhtbG5zOnNhbmWwyPSJ1cm46b2FzaXM6bmFtZXM6dGM6U0FNTDoyLjA
6YXNzZXJ0aW9ulj5odHRwOi8vcG9ydGFsLmFyeHVzLmNvbTwvc2FtbDI6SXN
zdWVyPjxzYW1sMjpdWJqZWN0IHhtbG5zOnNhbmWwyPSJ1cm46b2FzaXM6bmF
tZXM6dGM6U0FNTDoyLjA6YXNzZXJ0aW9ulj48c2FtbDI6TmFtZUIEIEZvcml
hdD0idXJuOm9hc2lzOm5hbWVzOnRjOINBTUw6Mi4wOm5hbWVpZC1mb3JtYXQ6cGVyc2lzdGVudCI+

ZWRtb25kLmhhbGxleTwvc2FtbDI6TmFtZUIEPjwvc2FtbDI6U3ViamVjdD48L3NhbmWwycDpBdXRobJlXVlc3Q+"
},
"protocol" : "urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST",
"serviceProviderName" : "https://stasts.arxus.eu/adfs/ls/"
}
```

## Response (JSON)

- authentication → [yes|no]
- failureMessage → if authentication="no", a description text of the error
- principalName → account name
- user → account owner identity standard attributes
- attributes → account owner identity custom attributes
- sessionId → session identifier

# generate-saml-logout-request

## Definition

- This operation allows to generate a SAML logout request to be sent to a IdP supporting SAML Global Logout, including Soffid IdP.

## URL

- <console-domain>/webservice/federation/rest/generate-saml-logout-request

## Method

- POST

## Headers

- Accept = "application/json"
- Content-Type = "application/json"

## Authentication

- Use an account with **federation:serviceProvider** permission

## Request (*URL parameter*)

- user → Id of the user to log out
- force → set to false if you want to give a chance to the end user to abort logout process. Set to true otherwise.
- backChannel → set to true if you want to send the logout process via SOAP to the identity provider. Set to false if you want to send the logout process using a Redirect or HTML Form. The later allows interaction between the end user and the identity provider.
- serviceProviderName → service provider that notifies user logout
- identityProvider → identity provider to send the logout request

## Response (JSON)

- parameters → parameters to send to identity provider.
  - RelayState → identifier of the request id
  - SAMLRequest → encoded SAML request
- method → method to use: urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST, urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect or urn:oasis:names:tc:SAML:2.0:bindings:SOAP
- url → url where to send the request

## Samples

### Sample request

```
{
  "user": "my-id",
  "force": true,
  "backChannel": false,
  "serviceProviderName": "my-identity-provider",
  "identityProvider": "http://idp.soffid.com"
}
```

### Sample response

```
{
  "url": "https://idp.soffid.com/SAML/SLO/SOAPBinding",
  "method": "urn:oasis:names:tc:SAML:2.0:bindings:SOAP",
  "parameters": {
    "RelayState": "_523866242f943b4c63234dc8942ffc2f08cea03aa129a4e2",
    "SAMLResponse": "PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz48c2FtbDJ...."
  }
}
```

### Sample redirect method made by service provider (urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect method)

HTTP/1.1 302 Found

Location:

https://idp.soffid.com/SAML/SLO/RedirectBinding?RelayState=\_523866242f943b4c63234dc8942ffc2f08cea03aa129a4e2&SAMLRequest=PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz48c2FtbDJ....

Sample html form made by service provider (urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST method)

```
<html>
  <body onLoad="document.forms[0].submit();">
    <form action="https://idp.soffid.com/SAML/SLO/PostBinding">
      <input type="hidden" name="RelayState"
value="_523866242f943b4c63234dc8942ffc2f08cea03aa129a4e2"/>
      <input type="hidden" name="SAMLRequest"
value="PD94bWwgdmVyc2lvcj0iMS4wliBlbmNvZGluZz0iVVRGLTgiPz48c2FtbDJ..."/>
    </form>
  </body>
</html>
```

Sample SOAP request ( urn:oasis:names:tc:SAML:2.0:bindings:SOAP method ). Service provader decodes SAMLRequest, and includes it in a SOAP message.

```
POST /SAML/SLO/SoapBinding HTTP/1.1
Host: idp.soffid.com
Content-Type: text/xml
Content-Length: ....
SOAPAction: http://www.oasis-open.org/committees/security

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <samlp:LogoutRequest xmlns:samlp="urn:oasis:names:tc:SAML:2.0:protocol"
xmlns="urn:oasis:names:tc:SAML:2.0:assertion" ID="d2b7c388cec36fa7c39c28fd298644a8"
IssueInstant="2004-01-21T19:00:49Z" Version="2.0">
      <Issuer>your-identity-provider</Issuer>
      <NameID Format="urn:oasis:names:tc:SAML:2.0:nameidformat:persistent">005a06e0-ad82-110d-a556-
004005b13a2b</NameID>
      <samlp:SessionIndex>1</samlp:SessionIndex>
    </samlp:LogoutRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```