

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": "PD94bWwgdmVyc2lvbjo0MS4wliBlbmNvZGluZz0iVVRGLTgiPz48c2FtbDJwOkF1dGhuUmVxdWVzdCB4bWxuczpzYW1sMnA9InVybjpvYXNpczpuYW1lc2p0YzptQU1MOjluMDpwcml9b2NvbCkgQXNzZXJ0aW9uQ29uc3VtZXJlZXJ2aWN0Pjwvc2FtbDJwOkF1dGhuUmVxdWVzdD4="
 },
 "url": "https://stasts-sof.arxus.eu/adfs/ls/"
}
```

```
{
 "method": "urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST",
 "parameters": {
 "RelayState": "_457cab260c4948ef4c6d35a67cac000d3348d1ec48f53215",
 "SAMLRequest": "PD94bWwgdmVyc2lvbj0iMS54wliBibmNvZGluZz0iVVRGLTgiPz48c2FtbDJwOkF1dGhuUmVxdWVzdCB4bWxuczpzYW1sMnA9InVybjpvYXNpczpuYW1lczpYzpqTQU1MOjluMDpwcm90b2NvbCIGQXNzZXJ0aW9uQ29uc3VtZXJTZXJ2aWNIVVJMPSJodHRwciovL3BvcnRhbmC5hcnh1cy5jb206NDQzL1NBTUwtcmVzcG9uc2UiIEZvcmlNQXV0aG49ImZhbnHNIIiBJRD0iXzQ1N2NhYjl2MGMMOOTQ4ZWY0YzZkMzVhNjdjYWMMwMDBkMzM0OGQxZWM0OGY1MzlXNSIgSXNzdWVJbnN0YW50PSIyMDE4LTAxLTExVDEyOjEzOm5hbWVzOnRjOINBTUw6Mi4wOmFzc2VydGlvbil+aHR0cDovL3BvcnRhbmC5hcnh1cy5jb208L3NhbWwyOkIzc3Vlcj48c2FtbDI6U3Via mVjdCB4bWxuczpzYW1sMj0idXJuOm9hc2lzOm5hbWVzOnRjOINBTUw6Mi4wOmFzc2VydGlvbil+PHNhbWwyOk5hbWVJRcbG3JtYXQ9InVybjpvYXNpczpuYW1lczp0YzpqTQU1MOjEuMTpuYW1laWQtZm9ybWF0OmVtYWIsQWRkcmVzcyl+bHVjYXNmckBzb2ZmaWQucG9jPC9zYW1sMjp0YW1ISUQ+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": "PD94bWwgdmVyc2lvdj0iMS4wliBlbmNvZGluZz0iVVRGLTgiPz48c2FtbDJwOkF1dGhuUmVxdWVzdCB4bWxuczpzYW1sMnA9InVybjpvYXNpczpuYW1lczp0YzptQU1MOjluMDpwcm90b2NvbClgQXNzZXJ0aW9uQ29uc3VtZXJlZXJ2aWN
```

```
ISW5kZXg9IjEiEFzc2VydGlvbkNvbN1bWVYU2VydmljZVVSTD0iaHR0cHM6Ly9hYmM6NDQzLy94eHgiIERlc3Rpb

mF0aW9uPSJodHRwczovL3N0YXN0cy5hcnh1cy5ldS9hZGZzL2xzLyIgRm9yY2VBdXRobj0iZmFsc2UiIEEPSJfNTI

zODY2MjQyZjk0M2I0YzYzMjM0ZGM4OTQyZmZjMmYwOGNIYTAzYWExMjlhNGU

yliBjc3N1ZUluY3RhbG9jIjwMTctMTItMjJUMTQ6NTU6MjAuODYyWiIgUHJvdG9jb2xCaW5kaW5nPSJ1cm46b2Fza

XM6bmFtZXM6dGM6U0FNTDoyLjA6YmIuZGluZ3M6SFRUUC1SZWRpcmVjdCIGV

mVyc2lvcj0iMi4wlj48c2FtbDI6SXNzdWVYlHhtbG5zOnNhbWwyPSJ1cm46b2FzaXM6bmFtZXM6dGM6U0FNTDoyLjA

6YXNzZXJ0aW9ulj5odHRwOi8vcG9ydGFsLmFyeHVzLmNvbTwvc2FtbDI6SXN

zdWVyPjxzYW1sMjpTdWJqZWN0IHhtbG5zOnNhbWwyPSJ1cm46b2FzaXM6bmF

tZXM6dGM6U0FNTDoyLjA6YXNzZXJ0aW9ulj48c2FtbDI6TmFtZUIEIEZvcml

hdD0idXJuOm9hc2lzOm5hbWVzOnRjOINBTUw6Mi4wOm5hbWVpZC1mb3JtYXQ6cGVyc2lzdGVudCI+

ZWRtb25kLmhhbGxleTwvc2FtbDI6TmFtZUIEPjwvc2FtbDI6U3ViamVjdD48L3NhbWwycDpBdXRobJlXVlc3Q+"

},

"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>
```