

# Configuring a Shibboleth SP for step-up authentication

When configuring a Shibboleth SP for step-up authentication, please refer to:

<https://spaces.internet2.edu/display/InCAssurance/Assurance++Service+Provider+Behavior>

See also some generic instructions for connecting a Shibboleth SP to SURFconext:

<https://wiki.surfnet.nl/display/surfconextdev/My+First+SP++Shibboleth>

An example Apache configuration snippet where a request for a specific URL triggers a SAML request with a higher LoA:

```
<Location /secure>
    AuthType shibboleth
    ShibRequestSetting requireSession 1
    ShibRequestSetting authnContextClassRef http://suaas.example.com/assurance/loa2
    require valid-user
</Location>
```

An example of the resulting subset of environment variables:

```
[Shib-Application-ID] => default
[Shib-Session-ID] => _77421bdf5f17e10c70efb9a89aa3737e
[Shib-Identity-Provider] => http://suaas-gw.surfnet.nl/metadata
[Shib-Authentication-Instant] => 2013-10-29T22:08:46Z
[Shib-Authentication-Method] => http://suaas.example.com/assurance/loa3
[Shib-AuthnContext-Class] => http://suaas.example.com/assurance/loa3
[Shib-Session-Index] => c8a493e33432686feb5cc683a9fd0c7c
[persistent-id] => http://suaas-gw.surfnet.nl/metadata!https://suaas-sp.surfnet.nl/shibboleth!urn:collab:
person:surfnet.nl:john
```