

Student Learning & Licensure

SAML SSO

Single Sign-on using SAML Protocol



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Background and Prerequisite Steps

- ▶ All Student Learning & Licensure accounts must be created prior to user login and it is highly recommended that the SSO_UID is supplied. The SSO_UID is based on the UID attribute.
- ▶ The university-specific URL can be referenced in the LMS, Portal, etc. and allow for seamless transition to Student Learning & Licensure.
- ▶ Student Learning & Licensure authentication is the only access. The removal of a user on the institution's side does not remove the user from Student Learning & Licensure.
- ▶ Student Learning & Licensure accounts are not created using the SAML integration.

User Workflow

- ▶ Click or visit redirect page for Student Learning & Licensure .
- ▶ If necessary, log in using University credentials.
- ▶ Access Student Learning & Licensure and arrive on "Progress" page.

Authentication and Communication Workflow

- ▶ Student Learning & Licensure requests login page from IDP and includes callback information.
- ▶ IDP checks login status and if necessary, authenticates user.
- ▶ After login, IDP calls back with HTTP. Get request to Student Learning & Licensure including the token containing the User's ID.
- ▶ Student Learning & Licensure matches the UID to a known Student Learning & Licensure user.
- ▶ Upon successful match, user is logged in and shown the "Progress" page in Student Learning & Licensure .

Student Learning & Licensure Admin Configuration

- ▶ Within the top level Admin account for your Student Learning & Licensure Organization, click **Settings > Configuration Settings > Single Sign On**
- ▶ Click **Edit** in the upper right corner of the Single Sign On box.
- ▶ Select **SAML** as the Protocol
- ▶ Enter in your **IdP URL**.
- ▶ Enter in the [Certificate Fingerprint](#).
- ▶ Enter in the **UID attribute**.
- ▶ Enter in the **SP URL** - **https://sll.watermarkinsights.com**.
- ▶ Click **Save**.

 In Progress

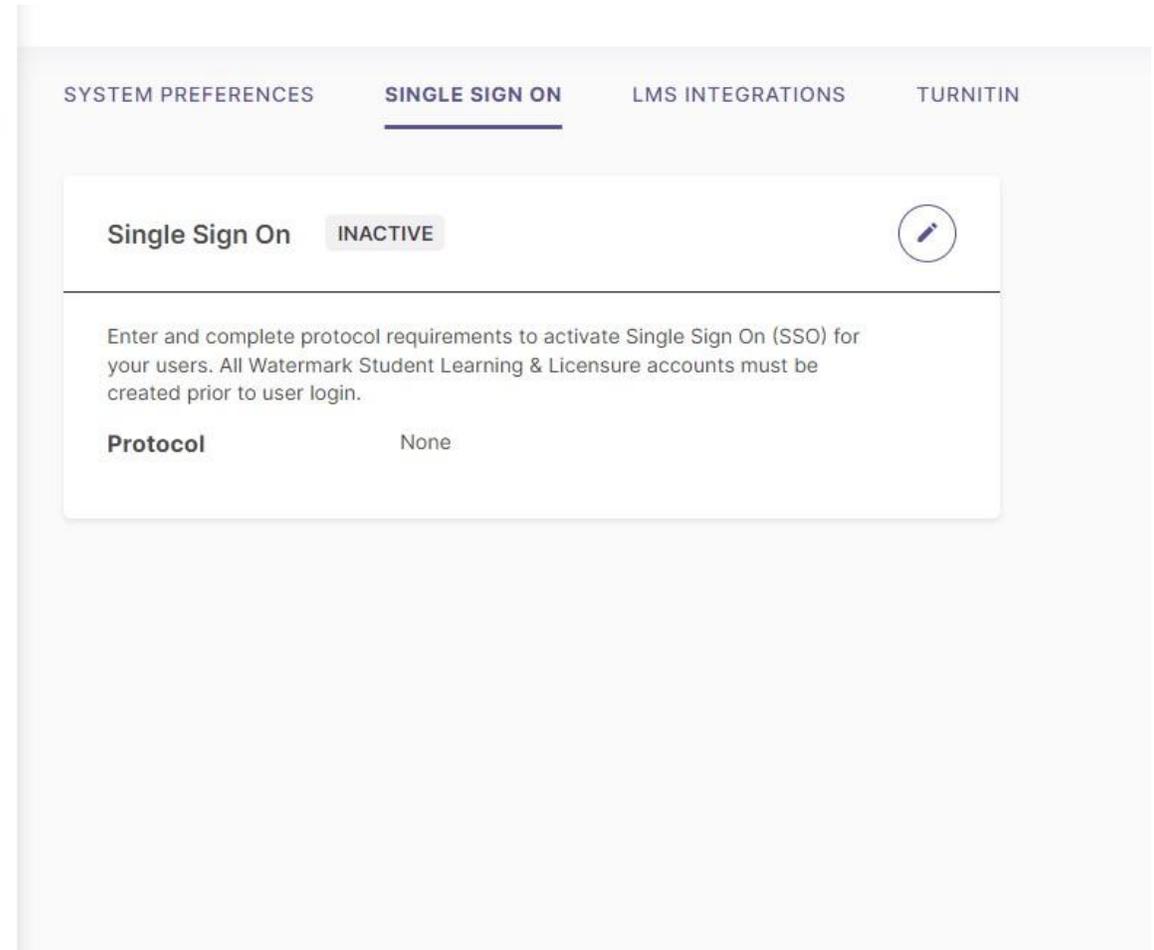
 Timeline

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The screenshot shows the 'Single Sign On' configuration page. At the top, there are four tabs: 'SYSTEM PREFERENCES', 'SINGLE SIGN ON' (which is selected and underlined), 'LMS INTEGRATIONS', and 'TURNITIN'. Below the tabs, there is a 'Single Sign On' section with a status of 'INACTIVE' and an 'Edit' icon (a pencil inside a circle). Below this, there is a text box with instructions: 'Enter and complete protocol requirements to activate Single Sign On (SSO) for your users. All Watermark Student Learning & Licensure accounts must be created prior to user login.' Below the text box, there is a table with one row: 'Protocol' with the value 'None'.

Generating the Certification Fingerprint

Generating the fingerprint on a local machine

- ▶ To generate the fingerprint, use the IdP X509 certificate file. This should be a .crt file.
- ▶ Copy the .crt file to a Linux-based machine (this works on a Mac) and run the following command from the command prompt.
- ▶ If the X509 certificate is called idp-signing.crt, it would look like this:

```
openssl x509 -noout -in idp-signing.crt -fingerprint
```
- ▶ The above command will generate the fingerprint.

Generating the fingerprint online

- ▶ The fingerprint can also be generated at this website: <https://www.samltool.com/fingerprint.php>
- ▶ Copy and paste the contents of the X509 file and the site will generate the fingerprint.

F.A.Q.

Can the URL be customized or shortened?

- ▶ No, but the URL isn't intended to be typed by users. Rather, it can be referenced as a link in the portal, LMS or part of a university-hosted redirect page for convenience. For example, a page at "www.ltsu.edu/via" can be set up to redirect to that page.

When will users be prompted to log in vs being redirected?

- ▶ Student Learning & Licensure does not handle any login or session expiration, so users will be subject to the university SAML login policy.

Why are users seeing a Student Learning & Licensure login page?

- ▶ If the university has not created a user account with a SSO_UID matching the ID which the SAML process included in the token, the user is asked to pair the account manually. This is done by supplying a Student Learning & Licensure username and password. This can be avoided by creating a user account, or updating the profile to include the correct SSO_UID in the user import.