

SSO Using LDAP

Single Sign-On using Lightweight Directory Access Protocol



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Background and Prerequisite Steps

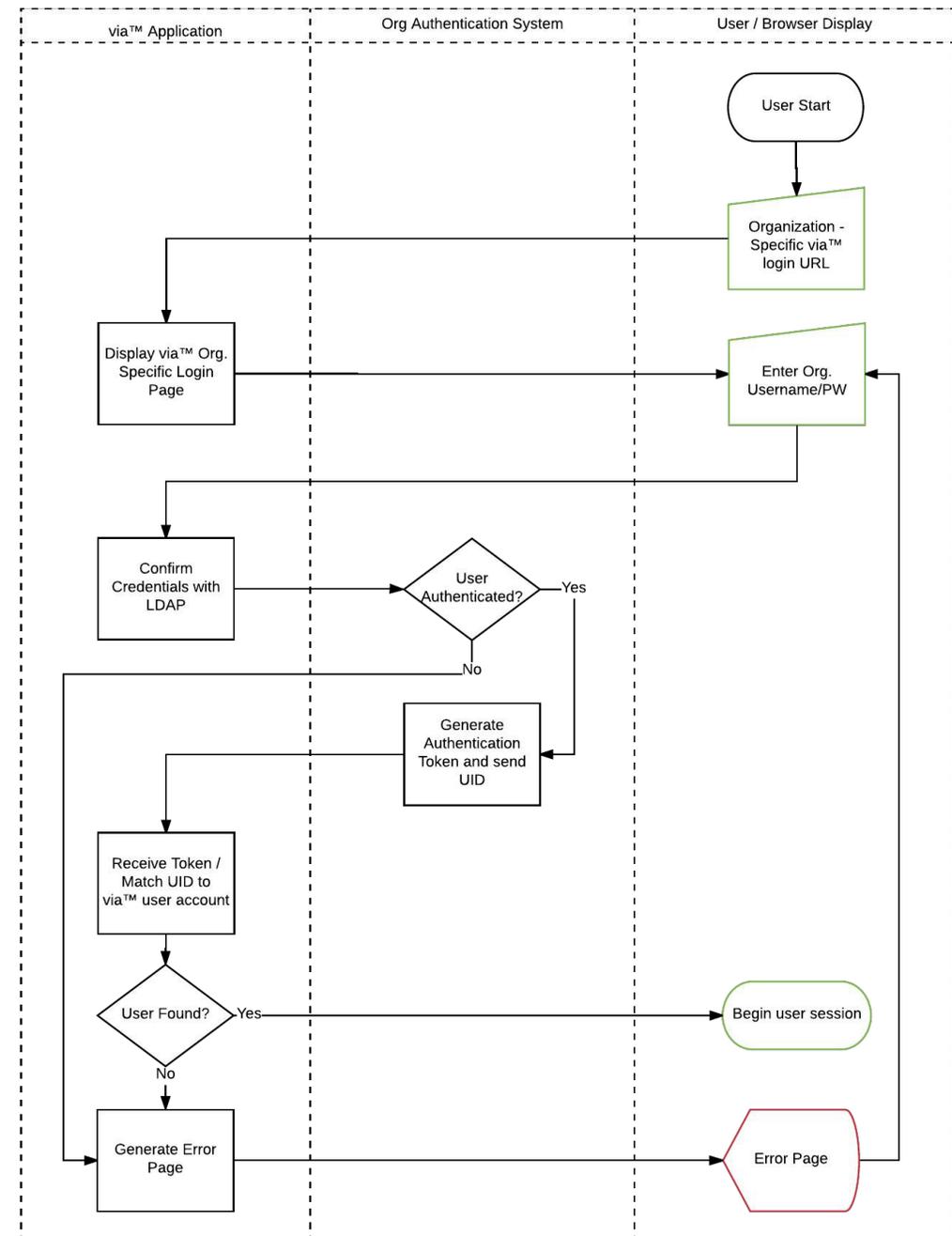
- ▶ Student Learning & Licensure uses LDAP to provide authentication based on the organization's directory information.
- ▶ Student Learning & Licensure does not use LDAP for creating, altering, deleting or searching for user information in the directory.
- ▶ All Student Learning & Licensure accounts must be created prior to user login and it is highly recommended that the SSO_UID is supplied.
- ▶ The organization-specific URL can be referenced in the LMS, Portal, etc. and allow for seamless transition to Student Learning & Licensure.
- ▶ If the user is removed from the directory they are not removed from Student Learning & Licensure, Student Learning & Licensure credentials are then their only access.
- ▶ The application does not communicate with LDAP for Student Learning & Licensure account creation.

User Workflow

- ▶ Click or visit login URL for Student Learning & Licensure for that Organization.
- ▶ Log in using Organization credentials.
- ▶ Access Student Learning & Licensure and arrive on "In Progress" page.

Authentication and Communication Workflow

- ▶ Student Learning & Licensure presents an organization-specific login page and passes input to the organizations LDAP server
- ▶ Org. LDAP checks login status and if necessary, authenticates user.
- ▶ After login, LDAP calls back with HTTP Get request to Student Learning & Licensure including the token containing the UID.
- ▶ Student Learning & Licensure matches the UID to a known SL&L user or asks for user's SL&L credentials if unknown.
- ▶ 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 **LDAP** as the Protocol.
- ▶ Optionally, if any customizations are needed for the Default Bind Dn, enter those
- ▶ The top level of the LDAP structure is not accepted. Therefore the sub-directories path would need to be added. The format should look like this:
OU=Students,DC=campus,DC=XXX,DC=XXX;
OU=Staff,DC=campus,DC=XXX,DC=XXX; etc.

 In Progress

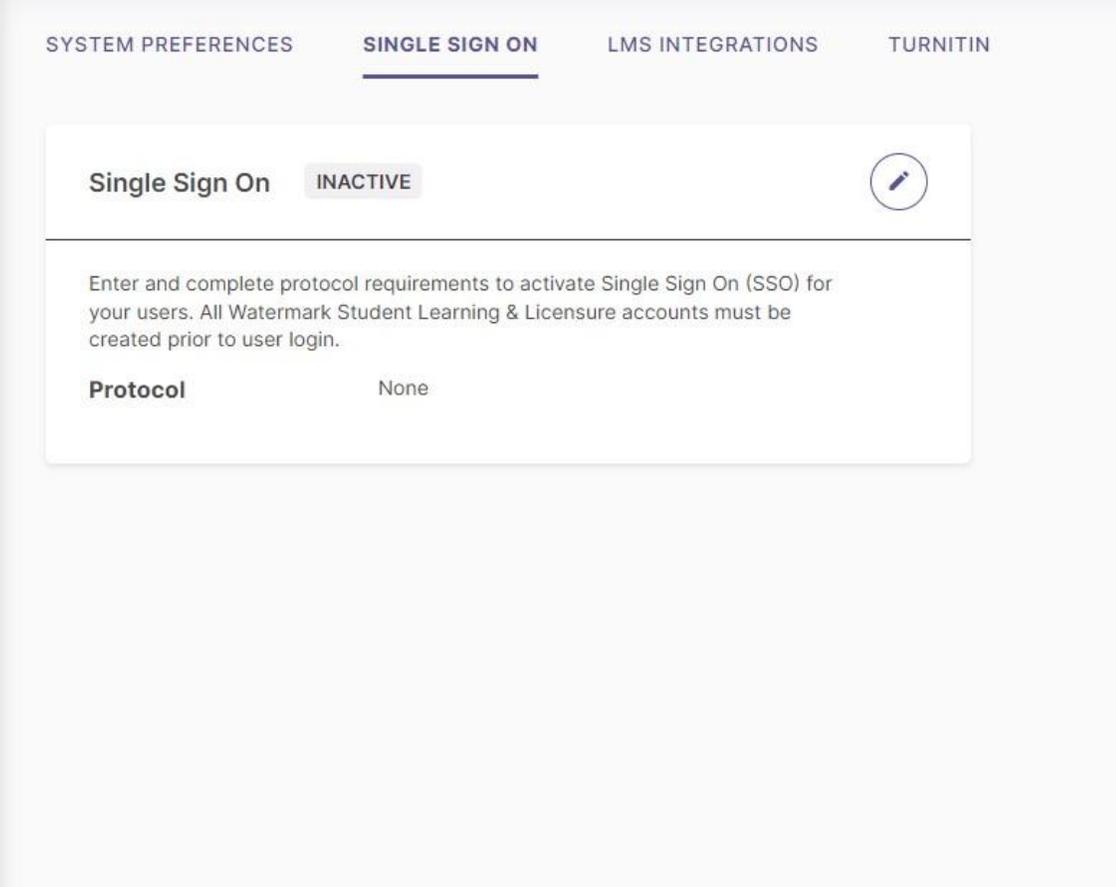
 Timeline

 ePortfolios

 Templates

 Rubrics

 Reports



The screenshot shows the 'Single Sign On' configuration page. At the top, there are navigation tabs: 'SYSTEM PREFERENCES', 'SINGLE SIGN ON' (which is 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 text box below this section contains 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'.

Protocol	None
Protocol	None

Student Learning & Licensure Admin Configuration

- ▶ Up to 5 sub-directories are accepted, all separated by a semicolon
- ▶ Optionally, if any customizations are needed for the user name attribute in the LDAP configuration, add that information.
- ▶ Note the Institution Login URL that will be the address for your organization's unique Student Learning & Licensure login page.
- ▶ Click **Save**.

The screenshot shows the 'Single Sign On' configuration page. At the top right, there are 'CANCEL' and 'SAVE' buttons. Below the title, there is a note: '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.' The form includes the following fields and options:

- Protocol:** A dropdown menu with 'LDAP' selected.
- Institution Login URL:** A text input field containing 'https://sll.watermarkinsights.com/sso/28 jan FP org'.
- Copy Link:** A button with a copy icon.
- Host Address*:** An empty text input field. Below it is a note: 'Host Address of your LDAP server. For example: http://www.example.com:389'.
- TLS Encryption:** Two radio buttons: 'No TLS' (selected) and 'Simple TLS'.
- Base DN:** An empty text input field. Below it is a note: 'Watermark Student Learning & Licensure will request LDAP server for bind dn by searching user with base dn and cn=sso_uid filtering.'
- Default Bind DN:** An empty text input field. Below it is a note: 'This can be configured to do quick binding with Bind DN as 'cn=sso_uid, default_bind_dn', without searching in LDAP server.'
- Username Default Attribute:** An empty text input field. Below it is a note: 'This Attribute is to do search and bind.'
- Allow LDAP server to anonymous search and bind:** A checked checkbox.

At the bottom, there is a link: 'Please refer to our [LDAP guide](#) to learn more about the protocol, process and

F.A.Q.

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

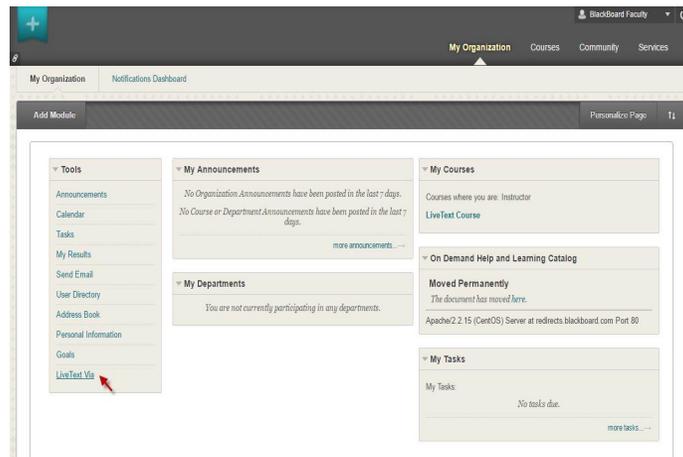
- ▶ Student Learning & Licensure will use the LDAP connection to authenticate for every new session. If a user is logged in to another organization application authenticated through LDAP that will not affect the login status for Student Learning & Licensure. They will not be redirected without logging in again.

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 an organization -hosted redirect page for convenience. For example, a page at "www.ltsu.edu/via" can be set up to redirect to that page, or a Blackboard tool can be set up using that URL with the link text chosen by the Blackboard admin.

Why are users receiving a "wrong username or password" error?

- ▶ If the organization has not created a user account with a SSO_UID matching the ID which the LDAP process included in the token, the user will receive the error that the username or password is wrong. This is because their account cannot be found in Student Learning & Licensure™. This can be avoided by creating a user account with, or updating the profile to include, the correct SSO_UID in the user import.



HTML

```
<meta http-equiv="refresh"
content="0;
URL=https://www.vialivetext.com/ss
o/ltsu!"/>
```

JavaScript

```
window.location =
"https://www.vialivetext.com/s
o/ltsu";
```