

Discovery Education

Single Sign On

LDAP with Active Directory

(Lightweight Directory Access Protocol)

Overview

Discovery Education offers the ability to integrate with a district's Active Directory (AD) using Lightweight Directory Access Protocol (LDAP).

This method of integration requires the following:

1. Establish a connection with the AD server.
2. Build a proof of concept.
3. Return Signed Agreement (This is a fee based service).
4. Customize the district login page (provide district logo and authentication instructions).
5. Determine a Launch Date when existing users will be converted.
6. Launch automated FTP User Imports.

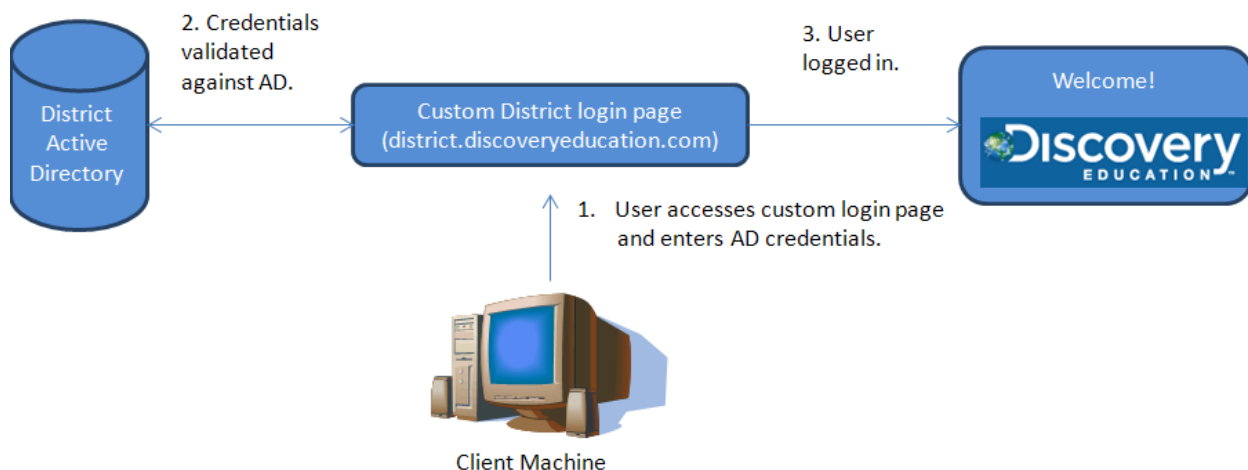
Benefits

The benefits of LDAP:

- Users authenticate with familiar credentials.
- Customized login page.
- Automated user management.

User Experience

1. User navigates to a custom district login page ([http://\[district\].discoveryeducation.com](http://[district].discoveryeducation.com)).
2. User enters their AD username and password.
3. User is logged into Discovery Education.



How it works

When a user enters his or her AD username and password, it is validated against the AD. If valid, Discovery Education's database will be searched for the username specific to the user's AD account:

Discovery Username: [sAMAccountName]@[district].discoveryeducation.com

- If found, the user will be logged into Discovery Education.
- If not found, the user will be asked to choose their school and a teacher account will be created in Discovery's database.

Since students cannot create their own accounts due to COPPA regulations, they must be imported into Discovery Education's database before they can login.

Example:

1. User navigates to <http://jeffersonsd.discoveryeducation.com>.
2. User enters username "JSmith" and their password.
3. Credentials validate successfully against the district's AD.
4. Discovery Education's database is searched for JSmith@jeffersonsd.discoveryeducation.com.
5. Username is found in Discovery Education's database.
6. User is logged in.

Establish a connection with the AD

Port 389 (or 636 if using SSL) must be opened to Discovery Education's servers:

- 198.147.10.56
- 199.199.210.34
- 205.234.248.130
- 204.93.53.3 (Canada only)

Discovery Education must be provided with the following:

- AD server URL or IP.
- Base DN.
- Username and password.
- Security certificate (if using SSL). This can be a self-signed certificate. Certificate must be X.509 in Distinguished Encoding Rules (DER) format.

Discovery will test the connection using a Java-based LDAP browser (example: JXplorer). If a successful connection is achieved, the connection will be configured in DE's test environment. If successful, the connection will be migrated to DE's production environment.

Return Signed Agreement

After the connection is successfully tested and proof of concept built, an agreement will be generated and sent to you. This must be signed and returned prior to launching the integration. Any questions about the agreement and pricing can be answered by your partnership representative.

Customize the district login page

The following can be customized on the district login page:

- The “*district*” in the URL - [http://\[district\].discoveryeducation.com](http://[district].discoveryeducation.com).
- A district graphic or emblem.
- Instructions to teachers and students.

Launch Date

A launch date must be established and users notified of the change in login procedure. This time is also used to map existing user accounts, so that they can be batch-converted prior to launch. Discovery staff can bulk convert usernames in the Discovery Education system. Any user accounts that do not exist should be imported.

Implement automated user imports - FTP

User imports are required to create user accounts within Discovery Education’s database. Although import templates can be manually posted via the website, they can be completely automated by posting to Discovery’s FTP site. Classes can also be created and mapped via imports.

Automating user and classroom imports requires the following:

- 1) User or Classroom rosters are output to a .csv file by a scheduled process.
- 2) The .csv files are posted to Discovery’s FTP site by a regularly scheduled process.

Obtaining FTP/FTPS credentials:

FTP/FTPS credentials will be provided once the following requirements are met:

- 1) Outputted .csv files abide by Discovery’s requirements (details below).
- 2) At least 3 iterations are uploaded manually via the My Admin section.
- 3) The files pass validation without major errors (eg. Not in .csv format, missing/added columns, extraneous commas).

.csv file requirements:

The outputted .csv file must meet the following requirements to be processed by our system:

- 1) File name must be in the following format:

(account_guid)_(user_guid)_(template type)_(date)_(time).csv

The **account_guid** and **user_guid** identify the district and user performing the upload, respectively, in the Discovery Education system. Upon request, these fields will be provided by Discovery Education's support staff.

The **template type** will determine the type of import:

- teacher
- student_std
- student_adv
- class
- roster

The **date** is in the following format:

- MM_DD_YYYY

The **time** is in the following format:

- HH_MM_SS_SSS (*millisecond*)

Example:

10000000-0000-XXXX-XXXX-000000000000_90000000-0000-XXXX-XXXX-000000000000_teacher_08_14_2011_22_02_00_000.csv

- 2) All columns and column headers must be present based on the template type that you are importing. Details on the columns and column headers are below.
- 3) All required fields must be filled out. Details on required fields are below.
- 4) Any extraneous commas within the data **must be removed**. Additional commas within the data will cause the import to fail.

Column Headers and Required Fields:

This section gives a high level overview of the Column Headers and the required fields. For a more advanced explanation of how the process works and required fields, please refer to the User Guides and examples in the My Admin section of the website.

Teacher template:

Col	Header	Required	Discovery or Customer Generated	Description	Accepted Entries
A	Site Passcode	Yes	Discovery	This is the Unique Identifier for each school.	
B	Account Name	No	Discovery	Friendly name for your district.	
C	Site Name	No	Discovery	Friendly name for your school.	
D	First Name	Yes	Customer	Teacher's first name.	
E	Last Name	Yes	Customer	Teacher's last name.	
F	UserName	Yes (Primary Key)	Customer	This must be in the format: [sAMAccountName]@[district].discoveryeducation.com	
G	Password	Yes	Customer	Must be at least 5 characters long and alphanumeric only.	
H	Grade	No	Customer	Grade level for teacher.	K, 1-12
I	Teacher ID	No	Customer	Unique Identifier for teachers within your district.	
J	Email	No	Customer	Teacher's email.	
K	Assessment Access Flag	No	Customer	For Assessment customers only. Determines if user has access to Assessment.	Y or N
L	Archive Flag	Yes	Customer	Determines if user should be created or archived.	Y or N

Student Std template:

Col	Header	Required	Discovery or Customer Generated	Description	Accepted Entries
A	Site Passcode	Yes	Discovery	This is the Unique Identifier for each school.	
B	Account Name	No	Discovery	Friendly name for your district.	
C	Site Name	No	Discovery	Friendly name for your school.	
D	First Name	Yes	Customer	Student's first name.	
E	Middle Initial	No	Customer	Student's Middle Initial.	A-Z
F	Last Name	Yes	Customer	Student's last name.	
G	UserName	Yes (Primary Key)	Customer	This must be in the format: [sAMAccountName]@[district].discoveryeducation.com	
H	Password	Yes	Customer	Must be at least 5 characters long and alphanumeric only.	
I	Student ID	No	Customer	Unique Identifier for Students within your district.	
J	Student Grade	Yes	Customer	Grade level for Student.	K, 1-12
K	Parent Email	No	Customer	Parent's email.	
L	Archive Flag	Yes	Customer	Determines if user should be created or archived.	Y or N

For information on the Student Adv template, please see the User Guide and Example within the My Admin section

Class template:

Column	Header	Required	Discovery or Customer Generated	Description	Accepted Entries
A	Site Passcode	Yes	Discovery	This is the Unique Identifier for each school.	
B	Account Name	No	Discovery	Friendly name for your district.	
C	Site Name	No	Discovery	Friendly name for your school.	
D	Class Name	Yes	Customer	Friendly name for the class.	
E	Class ID	Yes (Primary Key)	Customer	Unique Identifier for the class within your site.	
F	Class Description	No	Customer	Friendly description of the class.	
G	School Year	No	Customer	Year that the class will be active for.	1112, 1213, 1314
H	Benchmark Class Flag	No (Assessment Only)	Customer	For Assessment customers only. Determines if class will be used for Benchmark Assessments.	Y or N
I	Grade	No (Assessment Only)	Customer	For Benchmark Assessment classes only.	K, 1-12, MS, HS
J	Subject	No (Assessment Only)	Customer	For Benchmark Assessment classes only.	Reading/Lang Arts = RE, English 1 = E1, English 2 = E2, Mathematics = MA, Algebra 1 = A1, Algebra 2 = A2, Geometry = GE, Science = SC, Earth Science = ES, Life Science = LS, Physical Science = PS, Biology = BI, Social Studies = SS, College Readiness = AC General=GN
K	Semester/Block	No (Assessment Only)	Customer	For Benchmark Assessment classes only.	0 for Full Year, 1 for Fall Semester, 2 for Spring Semester
L	Archive Flag	Yes	Customer	Determines if user should be created or archived.	Y or N

Roster template:

Column	Header	Required	Discovery or Customer Generated	Description	Accepted Entries
A	Site Passcode	Yes	Discovery	This is the Unique Identifier for each school.	
B	Account Name	No	Discovery	Friendly name for your district.	
C	Site Name	No	Discovery	Friendly name for your school.	
D	Class ID	Yes (Primary Key)	Customer	Class ID must already exist.	
E	Username	Yes* (Primary Key)	Customer	Username must already exist.	
F	Teacher ID	No	Customer	*Can be used as Primary Key instead of Username, if mapped .	
G	Student ID	No	Customer	*Can be used as Primary Key instead of Username, if mapped .	
H	Remove Flag	Yes	Customer	Determines if user should be enrolled or removed from class.	Y or N

Files posted to Discovery Education's FTP site by 7 PM EST will be processed that evening. Once processed, the import status can be viewed in the My Admin interface. The following morning, the import result can also be viewed from the same location.

For questions, please contact the Customer and Technical Support team at 1-800-323-9084 or email education_info@discovery.com.