

Getting Started With the Transferology Connector

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What is the Transferology Connector?

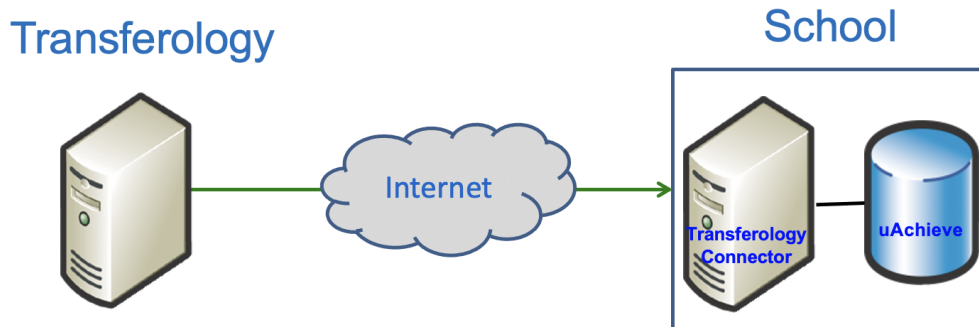
Provides degree audit and course equivalency web services to Transferology:

- Student requests a program (i.e., degree audit)
- Transferology requests course equivalencies (i.e., TA rules)

Java web application installed at your school

Compatible with u.achieve.

Network Architecture



Minimum Requirements

Java 8

Java application server (we recommend Tomcat 8.5)

uAchieve 4.4 minimum table definitions

JDBC Driver compatible with your database

For degree audits, u.achieve server 4.2.2 or higher.

External Firewall

The school's firewall must allow Transferology and the Transferology Connector to communicate:

- PROD Transferology 18.207.24.42
- TEST Transferology 23.22.104.35

Internal Firewalls

If the JDBC connection traverses an internal firewall, then TCP keepalive must be enabled between the school's java application server and database.

Transferology Connector Installation

OS access-install/configuration may require OS access to copy and edit files on Java application server

CollegeSource degree audit tables:

- Table definitions
- Database user and password for jdbc connection
- Database user access privileges

uAchieve Table Access

Equivalencies require **Select** on:

- mastref
- mastref_address
- tca_master
- tca_rule
- tca_source
- tca_target

Degree Audits require **Insert, Update, Delete** and **Select** on:

- job_queue_sysin
- job_queue_detail
- job_queue_list
- job_queue_accept
- job_queue_course
- job_queue_subreq
- job_queue_req
- job_queue_out
- job_queue_exceptions
- job_queue_incl_text
- job_queue_markers
- job_queue_report
- job_queue_req_text
- job_queue_subreq_text
- job_queue_destination

HTTP/HTTPS and POST

Transferology establishes connections to the Transferology Connector

- Uses HTTP or HTTPS when defined
- Sends/requests data via the POST method not GET

Transferology Connector Usage Scenarios

Let's review the three usage scenarios:

1. Transferology user requests a program (i.e., degree audit)
2. Transferology Connector sends completed plan to Transferology
3. Transferology retrieves school's equivalencies

1. User Requests a Program

- Transferology user chooses a school, a program, and provides answers to any predefined program questions
- Transferology creates an XML document with above information, user's course work, and return (i.e. callback) URL
- Transferology connects to Transferology Connector and sends XML document
- Transferology Connector saves data into the Job Queue table
- Transferology Connector returns success or failure status and description
- Transferology closes the connection

2. Degree Audit server processes the degree audit request

- Transferology Connector polls the job_queue_list table for completed degree audits, previously requested by Transferology
- After finding a completed degree audit, previously requested by Transferology, the Transferology Connector creates an XML document from the Job Queue data
- Transferology Connector connects to Transferology and sends XML document
- Transferology formats and saves program data
- Transferology returns success or failure status and description
- Transferology Connector closes the connection
- If configured, Transferology Connector deletes the relevant Job Queue rows

3. Transferology Retrieves School's Equivalencies

Transferology makes the necessary requests to the Transferology Connector to retrieve the following MASTREF and TA data:

- IREF Source schools
- Equivalency rules

Additional Considerations

Where appropriate, use an SSL Certificate to secure data exchange between Transferology and the Transferology Connector

Restrict access to Transferology Connector

- Firewall only allows traffic from Transferology
- PROD Transferology 18.207.24.42
- TEST Transferology 23.22.104.35

Transferology Connector does NOT access a school's Student Information System

Degree audits are optional but equivalencies are mandatory