

# Getting Started With the Transferology Connector

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## What is the Transferology Connector?

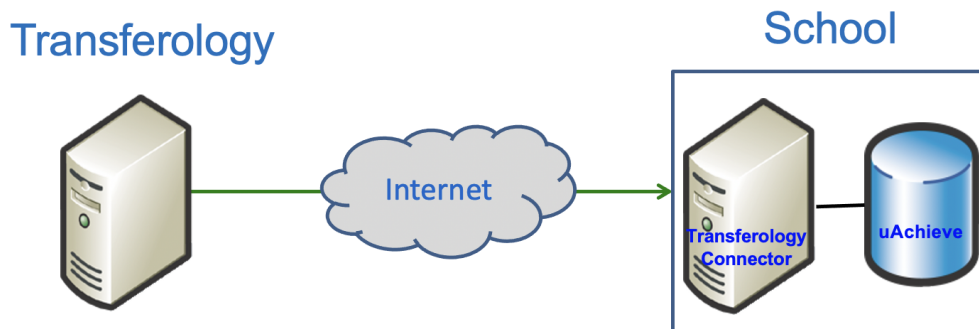
Provides degree audit and course equivalency web services to Transferology:

- 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