

Creating the Student Transaction Log Outbound Connector in Workday

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The Student Transaction Log Outbound Connector is an important component of the integration between Workday and 25Live via LYNX. It tracks changes for preliminary and published course sections and updates LYNX at scheduled intervals, eliminating the need to manually initialize course section data in the LYNX user interface. (Reference data, such as academic periods, locations, and subject codes, is not tracked by this connector and must still be manually initialized.)



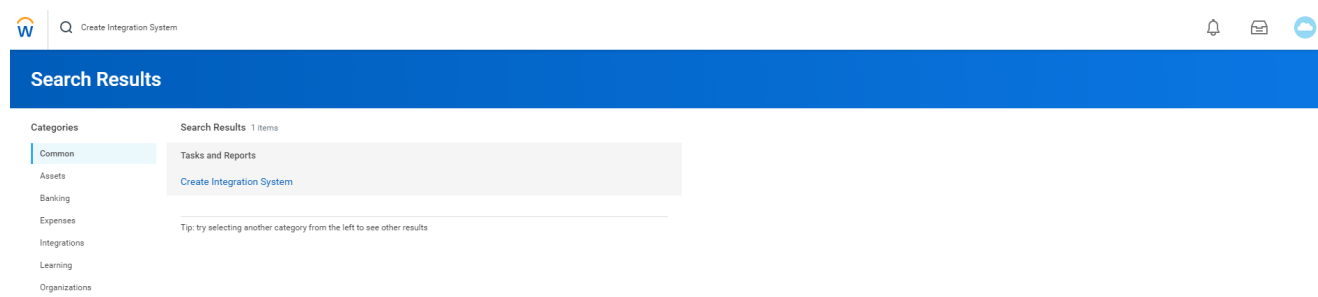
How Does it Work?

The connector produces a StudentTransactionLog.xml file with the section WID's of the course sections that have changed. That XML file can then be transformed via XSLT to a valid Get_Course_Sections request. Both the StudentTransactionLog.xml file and the response to Get_Course_Sections are then delivered to CollegeNET servers via a Web Service.

The instructions below outline the basic steps for creating and configuring the Student Transaction Log Outbound Connector. For more detailed information and security requirements, please refer to the [Workday Documentation](#).

Create the Student Transaction Log Outbound Connector

1) Run the *Create Integration System* task.



2) Name the Integration and select the *Student Transaction Log Outbound Connector* template.

Create Integration System

Create Integration System

System Name * CollegeNET Integration

> System ID

Comment

Changes to Course Sections are sent from Workday to CollegeNET via the Student Transaction Log Outbound Connector.

Integration Tags

> Contacts

Template

New using Template *

Student Transaction Log Outbound Connector

3) Enable all services.

Create Integration System

Configure Integration Services

CollegeNET Integration

Integration Template Student Transaction Log Outbound Connector

Enable All Services ☒

Integration Services 5 items

| Integration Template Service | Initial Service to Invoke | Optional | Enabled |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| Student Transaction Log Outbound Connector / Student Transaction Log Outbound Connector* | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Student Transaction Log Outbound Connector / Student Transaction Log Data | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Student Transaction Log Outbound Connector / Web Service Task for Transaction Log | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Student Transaction Log Outbound Connector / Document Attachment Service | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Student Transaction Log Outbound Connector / Integration Document Retention | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

4) At this point you will receive some errors. Follow the steps below to resolve them.

Create Integration System

2 Errors

View All

View Integration System

CollegeNET Integration

Basic Details

System Name CollegeNET Integration

Template

Integration Template Student Transaction Log Outbound Connector

Errors

1. Page Error

There are Integration Attributes enabled for this Integration System that are marked as "Required for Launch", but do not have a Value assigned to them. Please use the Related Menu Item (Integration System > Configure Integration Attributes) to complete the configuration.

Attributes:

Web Service Task for Transaction Log / Workday Web Service

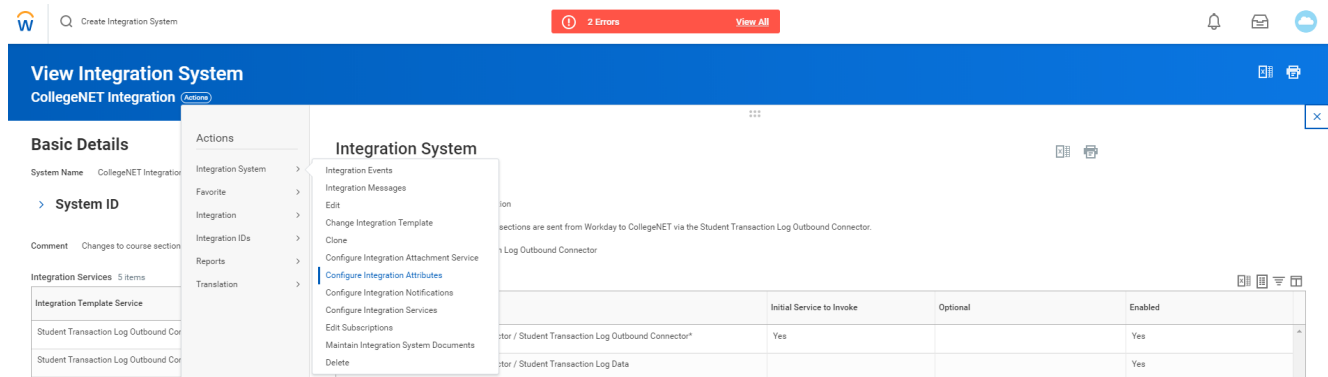
Web Service Task for Transaction Log / Workday Web Service Version (CollegeNET Integration)

2. Page Error

This integration system uses a document attachment service which is not fully configured. Before initiating this event you need to configure the attachment service using the related menu item Integration System > Configure Integration Attachment Service. (CollegeNET Integration)

Configure Integration Attributes

1) To resolve the first error, go to *Actions > Integration System > Configure Integration Attributes*.



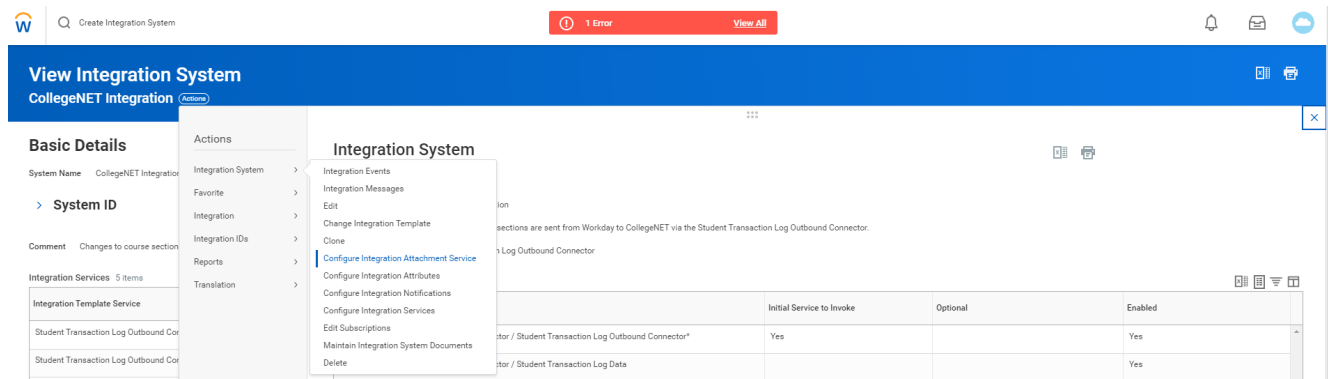
2) Enable *De-Duplicate Transaction Targets*, select *Student Records* for the *Workday Web Service* attribute value, and select *v39.0* for the *Workday Web Service Version* attribute value.

Integration Attributes
3 items

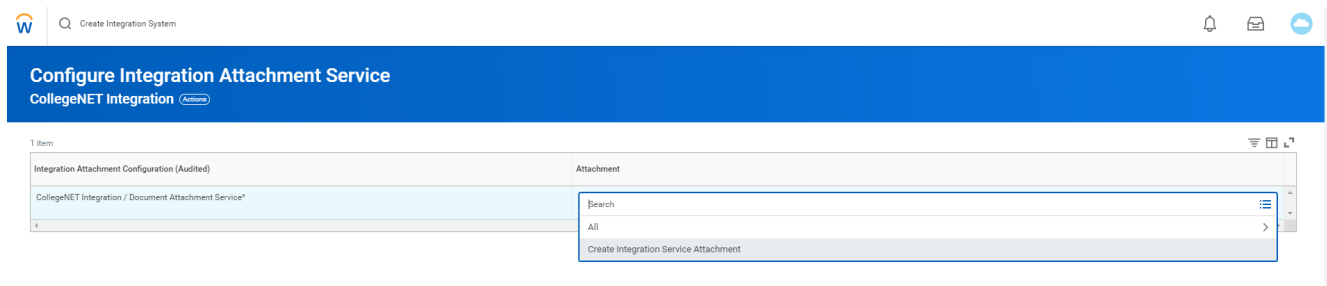
| Attribute Provider | Attribute | Description | Options | Override Default Values | Value | Restricted to Environment |
|--|----------------------------------|--|---------------------|--------------------------|-------------------------------------|---------------------------|
| Student Transaction Log Outbound Connector | De-Duplicate Transaction Targets | If set to true, the integration will remove duplicate Transaction Targets from the output file. | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Web Service Task for Transaction Log | Workday Web Service | Specify the Workday Web Service to retrieve additional information about the Transaction Targets within the Transaction Log. Configuration of Document Attachment (XSLT) is also required. | Required for Launch | <input type="checkbox"/> | X Student Records ... | |
| | Workday Web Service Version | Specify the Workday Web Service version for the Web Service Task request. | Required for Launch | <input type="checkbox"/> | X v39.0 | |
| | Output Document Tags | Tag(s) that will be associated for the output document produced by the Web Service Task for Transaction Log Service. These tags can be used by the Delivery Service to determine which document on the Integration Event to send to a particular endpoint. | | <input type="checkbox"/> | | |
| Integration Document Retention | Document Retention Policy | Specify the duration (in days) that integration output should be available for viewing. | Required for Launch | <input type="checkbox"/> | X 90 ... | |

Configure Integration Attachment Service

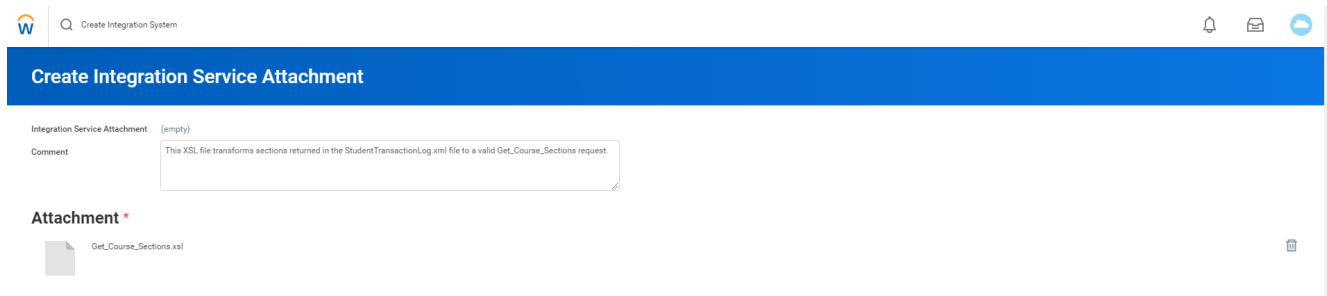
1) To resolve the second error, go to *Actions > Integration System > Configure Integration Attachment Service*.



2) Create a new Integration Service Attachment.

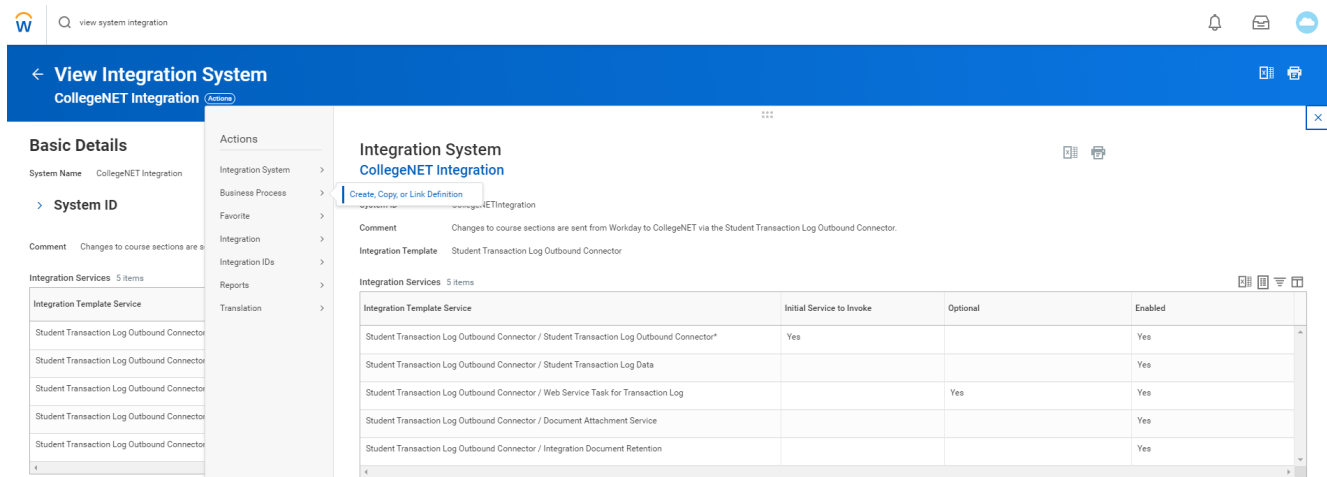


3) Upload an XSLT file that will transform the *StudentTransactionLog.xml* file to a valid *Get_Course_Sections* request. Attached is a sample file: [Get_Course_Sections.xsl](#)



Configure Document Delivery Service

To set up a document delivery service, create a new business process under *Actions > Business Process > Create, Copy, or Link Definition*.



2) Click OK to accept the defaults, but make sure the time zone is correct.

Create, Copy, or Link Business Process Definition

Effective Date * 06 / 30 / 2020

Time Zone * GMT-05:00 Eastern Time (New York)

Business Process Context

Business Object

Integration System * CollegeNET Integration

Business Process Type * Integration Process Event

☐ Copy existing Definition
☐ Link existing Definition
☒ None of the above

OK Cancel

3) Add a business process step with the following information:

- **Order:** c
- **Type:** Service
- **Specify:** Document Delivery

Edit Business Process
Integration Process Event for CollegeNET Integration (TOP LEVEL) [Actions](#)

Effective Date 06/30/2020

Time Zone GMT-05:00 Eastern Time (New York)

Business Object CollegeNET Integration (TOP LEVEL)

Notes

Due Date

Due Date is Based On Effective Date ☐

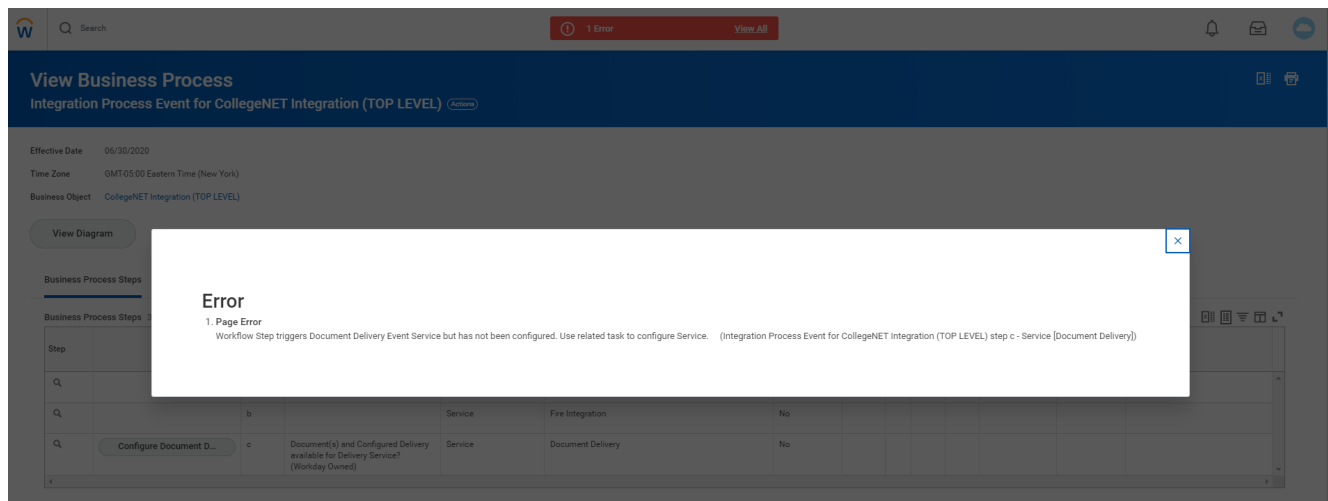
View Diagram

Business Process Steps Notifications Allowed Actions by Role Allowed Services Related Links Available Rules & Fields

Business Process Steps 3 items

| Step | *Order | Parallel Step Inbox Order | Notes | *Type | Specify | Optional | Group | All | Run As Usr |
|------|--------|---------------------------|-------|---------|---------------------|--------------------------|-------|--------------------------|------------|
| 1 | c | | | Service | X Document Delivery | <input type="checkbox"/> | | <input type="checkbox"/> | |
| 2 | a | | | | | <input type="checkbox"/> | | <input type="checkbox"/> | |
| 3 | b | | | Service | X Fire Integration | <input type="checkbox"/> | | <input type="checkbox"/> | |

4) At this point you will get another error because you need to configure document delivery.



5) Click *Configure Document Delivery*. You will need to enter the following:

- **Document(s):** From this Integration
- **Delivery Settings:** Define Transport Explicitly
- **Transport Type:** HTTP/SSL
- **HTTP Address:** `https://lynx.collegenet.com/lynx-ws/sis/data/INSTANCE/run/history.xml?cmd=notifications&type_name=Transaction_Logs` (**NOTE:** Enter the correct instance name in the URL.)
- **Web Service Invocation Type:** Basic Auth
- **User Id:** Enter a LYNX username provided by CollegeNET Support
- **New Password/Verify Password:** Enter the password for the LYNX username

Event Service Document Delivery
Effective Date 06/30/2020

Document(s)

☒ From this Integration Process
☐ Derived Using

Document Filter(s)

Tagged

Delivery Settings

Delivery Attempts ☒ 3

☐ Existing Transport from
☐ Derive Transport using
☒ Define Transport Explicitly

Transport

Transport Type ☒ HTTP/SSL

HTTP Address ☒ `https://lynx-test.collegenet.com/lynx-w`

Web Service Invocation Type ☒ Basic Auth
☐ No Security
☐ WS-Security User Id/Password

User Id ☒ lynx

New Password ☒

Verify Password ☒

Schedule the Integration

1) To schedule the integration, go to *Actions > Integration > Launch / Schedule*.

View Integration System
CollegeNET Integration

Basic Details

- System Name: CollegeNET Integration
- System ID**
- Comment: Changes to course sections are sent from Workday to CollegeNET via the Student Transaction Log Outbound Connector.
- Workday Account: ISU_CollegeNET
- Integration Services: 5 items

Integration Services

| Integration Template Service | Initial Service to Invoke | Optional | Enabled |
|--|---------------------------|----------|---------|
| Student Transaction Log Outbound Connector / Student Transaction Log Outbound Connector* | Yes | | Yes |
| Student Transaction Log Outbound Connector / Student Transaction Log Data | | | Yes |
| Student Transaction Log Outbound Connector / Web Service Task for Transaction Log | | Yes | Yes |
| Student Transaction Log Outbound Connector / Document Attachment Service | | | Yes |
| Student Transaction Log Outbound Connector / Integration Document Retention | | | Yes |

2) Select a *Run Frequency*.

Launch / Schedule Integration

Integration: CollegeNET Integration

Organization:

Run Frequency: Minute Recurrence

3) Enter the *Integration Criteria*.

Integration Criteria

| Provider | Field | Value Type | Value |
|------------------------------|-----------------------|----------------------------|--|
| Student Transaction Log Data | Entry Moment From | Determine Value at Runtime | As Of Entry DateTime of Last Completed Integration Event |
| | Entry Moment To | Determine Value at Runtime | Current Moment (DateTime) |
| | Effective Moment From | Specify Value | |
| | Effective Moment To | Specify Value | |
| | Transaction Types | Specify Value | Cancel Course Section, Create Course Section, Edit Course Section, Edit Published Course Section, Publish Course Section |

Concurrent Integration Scheduling

When there are in progress integration events triggered by this schedule, allow this schedule to trigger a new integration event ☒

☒ Except when the integration event has all the same:

- Entry Moment From
- Entry Moment To

4) Enter the *Integration Schedule*. You are required to enter an *End Date*, so will need to adjust that accordingly as the year progresses. Please note that LYNX can try to initiate an update every 5 minutes.

Request Name

☒ Static Text

CollegeNET Integration

☐ Dynamic using

Integration System CollegeNET Integration

Run Frequency Minute Recurrence

Integration Criteria Schedule

Priority

X Normal

Minute Recurrence Criteria

Recurrence Interval * X Every 5 minutes

Start Time * X 2:00 PM

Time Zone * X GMT-08:00 Pacific Time (Los Angeles)

Catch Up Behavior * X None

Range of Recurrence

Start Date * 08/10/2020

End Date * 12/31/2020

5) Review the summary of the scheduled process.

View Scheduled Future Process

CollegeNET Integration

Actions

Process

CollegeNET Integration

Request Info

Request Name CollegeNET Integration

Run Frequency Minute Recurrence

Status Active

Integration Criteria

Schedule

Additional Info

Integration Criteria

5 Items

| Provider | Field | Value Type | Value |
|------------------------------|-----------------------|----------------------------|--|
| Student Transaction Log Data | Entry Moment From | Determine Value at Runtime | As Of Entry DateTime of Last Completed Integration Event |
| | Entry Moment To | Determine Value at Runtime | Current Moment (DateTime) |
| | Effective Moment From | Specify Value | |
| | Effective Moment To | Specify Value | |
| | Transaction Types | Specify Value | Cancel Course Section Create Course Section Edit Course Section Edit Published Course Section Publish Course Section |