

PowerPro Talent LMS Integration Guide

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Overview

Using this plug-in, RTOs can have PowerPro enrolled Students (named “Clients” in PowerPro) automatically transferred to the Talent LMS platform and enrolled against the corresponding Talent LMS Course. This process will be referred to as “provisioning” in this document.

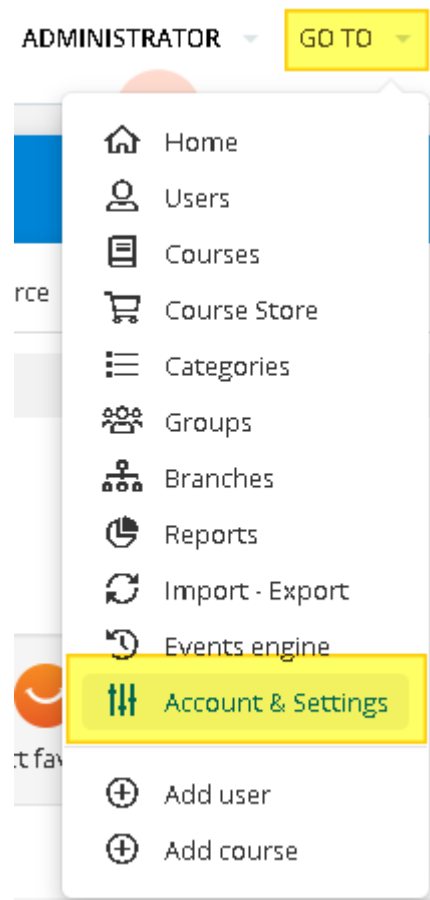
The plug-in is also responsible for fetching any unit completions from Talent LMS into PowerPro. This process will be referred to as “result fetching” in this document.

Both provisioning and resulting fetching occur whenever the Integration Agent is executed. This process is scheduled to run on the PowerPro Sky Server as often as needed: it can run one a day, twice a day, every hour or every ten minutes. Please contact the PowerPro Support team should you need to adjust the frequency of the integration process.

Information required before installing the Integration Agent

To install and schedule the Integration Agent, the PowerPro Support Team will need API information from your TalentLMS account. This can easily be sourced from Talent using the following menu sequence

GO TO>Accounts & Settings>Basic Settings>Security>Enable API:



Home / Account & Settings



Basic settings

- Homepage
- Users
- Themes
- Certifications
- Gamification
- E-commerce
- Domain
- Subscription

IDENTITY

Site name ⓘ

Site description ⓘ

Select logo  Select favicon 

LOCALE

Default language ⓘ

Default time zone

Date format

Time format

Currency

ANNOUNCEMENT

Internal External

Announcement

SECURITY

Enable API ⓘ

8DZQvzDn6YczzPw1EBf4YLhAuGujV

Download API documentation and PHP libra

Image above: Enabling the Talent API to be provided to the PowerPro support team

Provide PowerPro with your Talent LMS API

Provisioning (Enrolments flowing from PowerPro to LMS)

The PowerPro-Talent Integration Agent will export PowerPro Enrolments to Talent periodically (e.g. every 10 minutes). The Agent will typically be provisioning PowerPro Enrolments that match the following criteria:

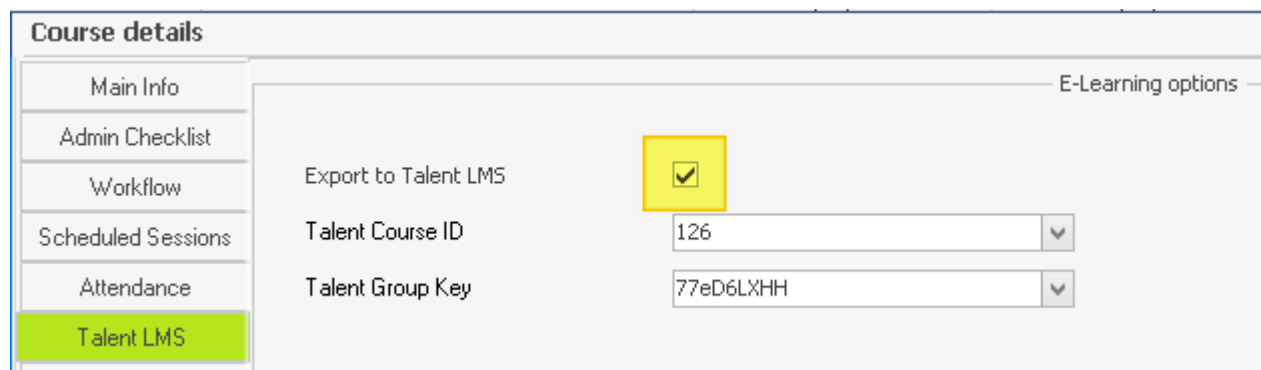
- The PP Course is not archived
- The PP Course E-Learning Export option is checked
- The PP Course E-Learning Cohort field is numeric
- The PP Enrolment Booking Status is Confirmed (green tick)
- The PP Enrolment is active (not withdrawn or completed)
- The PP Enrolment E-Learning Export option is checked
- The PP Enrolment E-Learning Export date matches today's date
- There is no Provisioning Contact Log associated with the Enrolment
- The Student has an email address

These conditions can be fine-tuned for each RTO if required.

Course E-Learning settings

Course E-Learning export flag

Any Course/group that is to be provisioned in Talent LMS must be flagged as such. This is done by checking the "Export to Talent LMS" box in the *E-Learning* tab of the Course window as per image below:



The screenshot shows the 'Course details' window with the 'E-Learning options' tab selected. The 'Export to Talent LMS' checkbox is checked. The 'Talent Course ID' field contains the value '126' and the 'Talent Group Key' field contains the value '77eD6LXHH'.

Field	Value
Export to Talent LMS	<input checked="" type="checkbox"/>
Talent Course ID	126
Talent Group Key	77eD6LXHH

Image above: Flagging a PowerPro Course for Talent LMS provisioning

Course E-Learning cohort

This is the Talent LMS Course id (**must be numeric**) where the Students from the PowerPro Course are to be enrolled. In order to find out the Course E-Learning cohort, login to Talent LMS, open the relevant Course and grab the Course id as per image below:

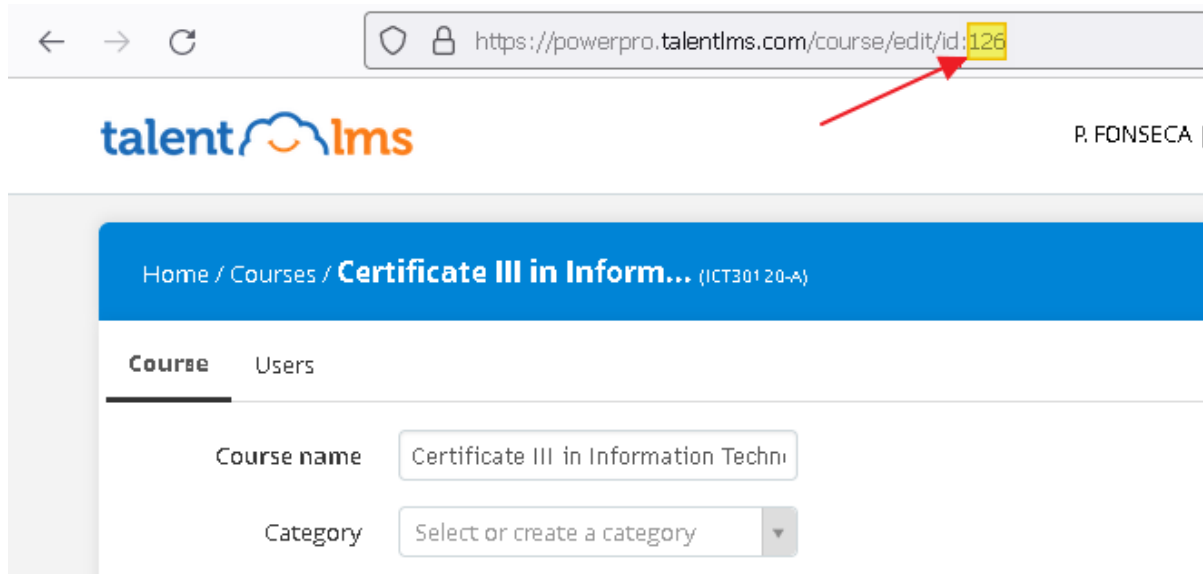


Image above: Sourcing the Course id from Talent LMS

Once the Talent Course id is known, populate the PowerPro Course>Talent Course ID with that number:

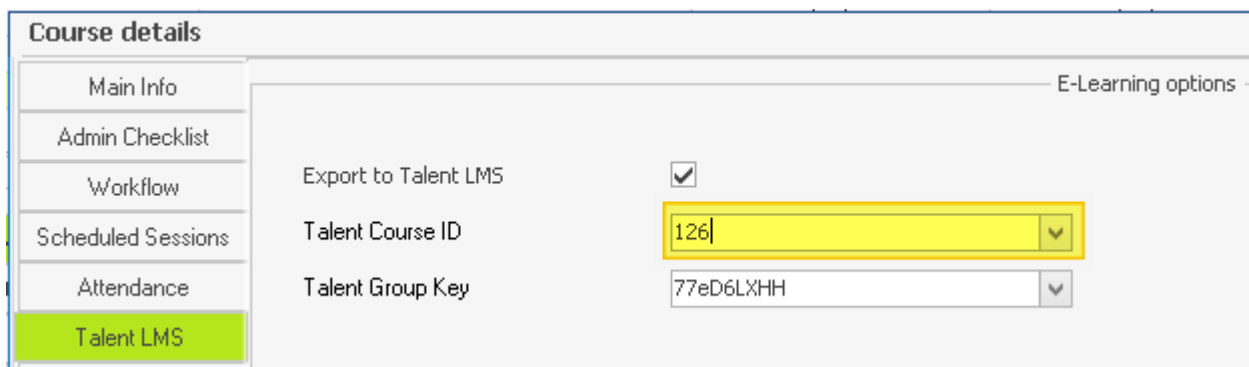
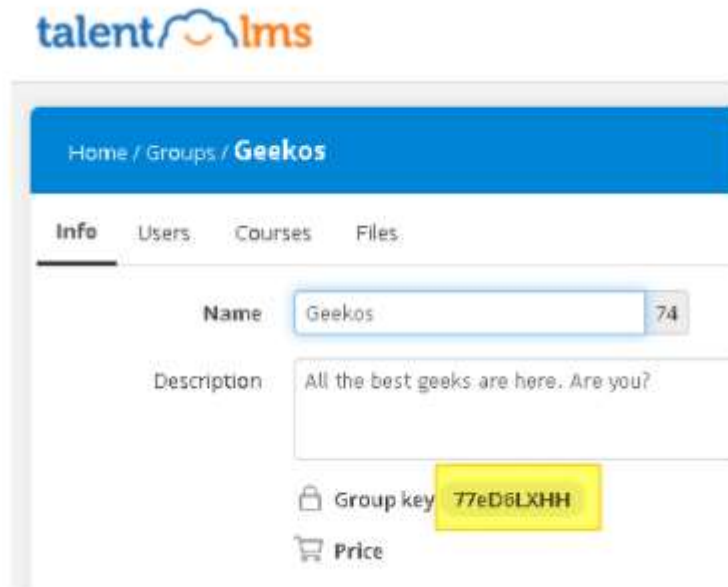


Image above: Specifying the Talent LMS target Course in PowerPro

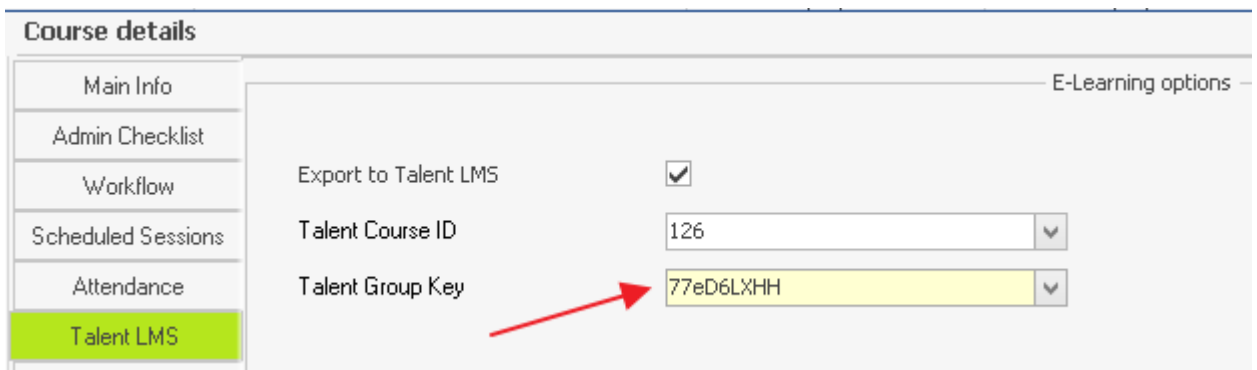
On the example above, Students in this PowerPro Course/group will be enrolled in Talent LMS Course ID 126

Talent Group (optional)

Talent LMS lets you organise users in groups. Each Talent group should have a key as per image below:



The screenshot shows the Talent LMS interface for a group named 'Geekos'. The breadcrumb trail is 'Home / Groups / Geekos'. There are tabs for 'Info', 'Users', 'Courses', and 'Files'. The 'Info' tab is active. The 'Name' field contains 'Geekos' and has a '74' icon. The 'Description' field contains 'All the best geeks are here. Are you?'. The 'Group key' field is highlighted in yellow and contains '77eD6LXHH'. There is also a 'Price' field.



The screenshot shows the 'Course details' page in PowerPro. The 'Talent LMS' tab is selected. The 'Export to Talent LMS' checkbox is checked. The 'Talent Course ID' field contains '126'. The 'Talent Group Key' field is highlighted in yellow and contains '77eD6LXHH', with a red arrow pointing to it. The 'E-Learning options' section is visible on the right.

Image above: Setting the Talent LMS Group key in PowerPro

As mentioned above the Talent Group Key is an optional field. Leaving it blank means the Student will be enrolled in the Talent Course but not added to any Talent Group.

Setting the provision date

PowerPro users can control when the Student is to be provisioned in Talent using these fields (Home>Enrolments and Results>Course data):

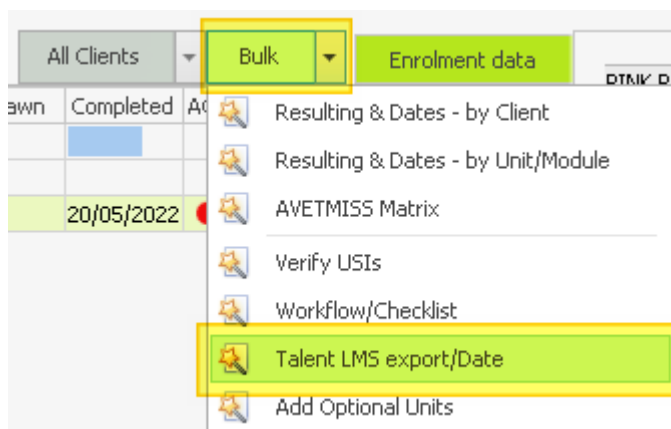
Enrolment data	
PINK PANTHER (PINKIE)	
Enrolment Date	16/05/2022
Booking status	Confirmed
Expected Start Date	16/05/2022
Expected End Date	20/09/2022
Deferment Date	
Extension Date	
Withdrawal Date	
Referral/Lead source	
Covid-19 Vaccination	Not Specified
RTO Case Manager	PAULINE
LLN Assistance required	<input checked="" type="checkbox"/>
PowerQR Client consent	<input type="checkbox"/>
My flag 1	<input type="checkbox"/>
My flag 2	<input type="checkbox"/>
Talent LMS export/Date	<input checked="" type="checkbox"/> 19/05/2022
View Web Registration	

Image above: Setting the Talent provisioning date for a Student

In the above example, the Student is scheduled to be provisioned in Talent LMS on the 2nd of June 2022.

Bulk setting the provision date

The Talent provisioning date can also be set in bulk. This can be handy when provisioning multiple Clients in the same Course:



Bulk set Talent LMS export/Date

Course Name

Enrolled Clients

Client Name	Current Export date	Set
✓ CASTER, LEN		<input type="checkbox"/>
✓ GOMEZ, JOANA		<input type="checkbox"/>
✓ PANTHER, PINK		<input type="checkbox"/>

Select All Clear All

Set export/Date

Set export/Date

Apply Close

Image above: Setting the Talent provisioning date in bulk

Provisioning Contact Log

A PowerPro Contact Log is created by the Integration agent upon a successful Talent LMS provisioning:

Enrolment data	New Contact	Edit Contact	Notify	Delete Contact
Outcomes & Dates	<input type="text"/> <input type="button" value="Clear"/>			
Workflow				
Units of Study	Contact Date: 02/06/2022 2:59:02 PM			
Attendance	User/Trainer: PP-CA			
AVETMISS	Contact Type: Enrolment exported to Talent LMS			
RAPT	No Follow up required			
Invoices				
Contact Log	Contact Log			
Documents	Contact Log entry			
AQF Docs printed	Client Name	JOANA GOMEZ		
Work Placement	Course	Certificate III - Information Technology		
International	Contact Date	02/06/2022 14:59		
My Fields	Contact Type	Enrolment exported to Talent LMS		
Survey	Created by	PP-TALENT		
	Assigned to	<input type="text"/>		
	Follow up	<input type="text"/>		
	Status	Closed		
	Priority flag	<No flag>		
	Description	Enrolled in Talent Course: 126 Joana Gomez added to Talent Group 77eD6LXHH ...		

Image above: The provisioning Contact Log record

PowerPro Client Second ID

The PowerPro Client Secondary ID field is updated by the Integration Agent upon a successful Talent LMS provision. It is populated with the Talent User ID and used as a cross-reference field when fetching Unit results from Talent.

The screenshot displays the 'Clients' management interface. At the top, there are search filters: 'All Clients' (dropdown), '<All Clients>' (dropdown), a refresh icon, and a search box containing '2021000017'. Below this is a table with columns: Code, Surname, Given Names, Preferred Name, USI, Secondary ID, Date of Birth, Mobile, and Email. A single record is visible for Code '02100001', Surname 'GOMEZ', Given Names 'JOANA', Preferred Name 'JOANA', USI '7', Date of Birth '12/12/2000', and Email 'ig11@pm.me'. Below the table are buttons for 'New client' and 'Edit client'. The 'Edit client' view is active, showing a sidebar with 'Main', 'Other contacts', 'AVETMISS', 'Tags', and 'Licences'. The main form fields include: Code/ID (2021000017), Surname (GOMEZ), Given names (JOANA), Preferred name (JOANA), Building name (empty), Secondary ID (7), and Title (dropdown).

Code	Surname	Given Names	Preferred Name	USI	Secondary ID	Date of Birth	Mobile	Email
'02100001'	GOMEZ	JOANA	JOANA	7	7	12/12/2000		ig11@pm.me

Code/ID	2021000017	Secondary ID	7
Surname	GOMEZ	Title	
Given names	JOANA		
Preferred name	JOANA		
Building name			

Image above: Client Secondary ID populated by the Integration Agent

Preventing the provision of a specific participant

To prevent a PowerPro Course participant from being provisioned in Talent, simply uncheck the *E-Learning export* checkbox as per image below:

Course data	
Outcomes & Dates	COSTA, LISA
Workflow	Enrolment Date 01/03/2021
Units of Study	Booking Confirmed
Attendance	Withdrawal Date
AVETMISS	Expected Start Date
RAPT	Expected End Date
Invoices	Deferment Date
Contact Log	Extension Date
Documents	Referral/Lead source
AQF Docs printed	LLN Assistance required <input type="checkbox"/> A
Work Placement	My flag 1 <input type="checkbox"/>
International	My flag 2 <input type="checkbox"/>
My Fields	E-Learning export/Date <input type="checkbox"/>

Image above: Clearing the provisioning flag for a participant

Provisioning algorithm

The business rules used for provisioning are depicted in the following pseudo-code:

```
FOREACH Enrolment to be provisioned (see above for Provisioning conditions):  
    Search for a Talent User where Talent User id = PP Client Secondary ID  
    IF [no match is found] THEN  
        Search for a Talent User where Talent User Email = PP Client email  
        IF [no match is found] THEN  
            Create Talent User with PP Client details and a pre-set Password  
        END IF  
    END IF  
  
    IF [Talent User found] OR [Talent User created] THEN  
        Set PP Secondary ID to the Talent User ID  
        IF [Enrol the Talent User in the Course] THEN  
            IF [PP Course E-learning Sub cohort is set] THEN  
                Add the Talent User to the Talent Group (PP E-learning Sub cohort)  
            END IF  
            Create PP Provisioning Contact Log  
        END IF  
    END IF  
END FOREACH
```

Result fetching (from Talent LMS)

The Integration Agent fetches Talent Unit completions for those PP active Clients that have been provisioned by the Integration Agent (have the Provision Contact Log). It updates the corresponding Unit outcome and outcome date in PowerPro RTO. Please refer to the Talent LMS documentation on how to mark a Student Unit Enrolment as completed.

Result fetching scope

Important, result fetching only applies if:

- The Talent Unit name includes the PP Unit code as its first word
- The PP Course is active (not archived)
- The PP Enrolment Booking status is "Confirmed (green tick)
- The PP Enrolment is active (not withdrawn or completed)
- There is a Provisioning Contact Log associated with the Enrolment



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-  **ICTWEB305** Produce digital images for the web
-  **ICTWEB306** Develop web presence using social media

Image above: Name the Units in Talent including their national code as the first word

Results fetched from Talent will show a “Talent Integration Agent” tooltip when mouse hovering above them in PowerPro:

3 out of 3		
	Start Date	Outcome/Result
	16/05/2022	20 - Competency achieved/pass
	16/05/2022	[Talent Integration Agent] pass
	16/05/2022	20 - Competency achieved/pass

Image above: A Unit result fetched from Talent LMS

Double-clicking on the Unit result also shows the origin of the Unit result:

Unit/Module Client Outcome

Enrolment Information

Client Name: PINK PANTHER

Unit/Module: ICTWEB305 - Produce digital images for the web

Dates and Outcome

Pre-requisites achieved:

Start Date: 16/05/2022

Outcome: 20 - Competency achieved/pass Clear result

Outcome Date: 20/05/2022


Short comment: [Talent Integration Agent] 

Image above: The Integration Agent result fetching stamp

Result fetching algorithm

FOREACH PP Enrolment provisioned (as PPE) - see Result fetching scope above:

Fetch User Progress in matching Talent Course (as TUP)

FOREACH Unit Completed in TUP

IF [matching PP Unit exists] or [matching PP Module exists] THEN

IF [TUP Completion date <> PPE Unit Outcome date]

OR [PPE Unit Outcome <> "Competent"] THEN

Set PPE Unit Outcome = "Competent"

Set PPE Unit Outcome Date = TUP Completion date

END IF

END IF

END FOREACH

END FOREACH

The Talent LMS Enrolment tab

Each PowerPro Enrolment includes a Talent LMS tab. This area includes the following information:

- Provisioning settings (Export and Export date)
- Provisioning history
- Unit results fetched from Talent

Enrolment data	Settings				
Outcomes & Dates	Talent LMS export/Date <input checked="" type="checkbox"/> 02/06/2022				
Workflow					
Talent LMS					
Units of Study	Provision History				
VSL	Enrolment exported to Talent LMS on 02/06/2022 14:59				
TCSI	Additional information				
Attendance	Enrolled in Talent Course: 126 Joana Gomez added to Talent Group 77eD6LXHH ...				
AVETMISS					
Invoices					
Contact Log					
Documents	Results fetched from Talent LMS				
AQF Docs printed	Code	Unit/Module Name	Start Date	Outcome/Result	Outcome Date
Work Placement	ICTWEB305	Produce digital images for the web	16/05/2022	20 - Competency achieved/pass	13/06/2022
International	ICTWEB304	Build simple web pages	16/05/2022	20 - Competency achieved/pass	13/06/2022
My Fields					

Image above: The Talent LMS Enrolment tab

Logging

The Integration Agent logs any errors found during Provisioning and Result fetching. This log can be accessed using *Home>Web>E-Learning Sync Log*:

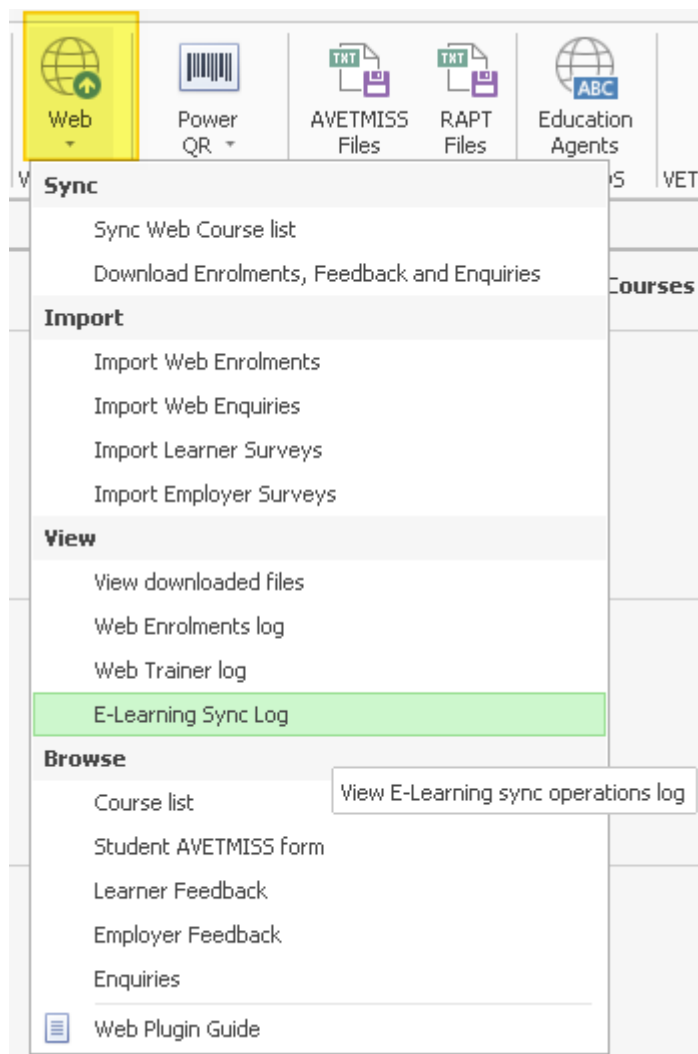


Image above: Opening the Integration log

02/06/2022	14:58:56	>>> PowerPro-Talent Integration Agent started >>>
02/06/2022	14:58:57	1 Student(s) to enrol
02/06/2022	14:58:57	Looking up Talent Student by User ID (DPC000129)...
02/06/2022	14:58:57	tal_studentExistsByID(DPC000129) - Talent User ID must be numeric -> Check PP Client>Second ID
02/06/2022	14:58:57	Not found. Looking up Talent Student by email (jg11@pm.me)...
02/06/2022	14:58:58	tal_studentExistsByEmail(jg11@pm.me)
02/06/2022	14:58:58	GET https://powerpro.talentlms.com/api/v1/users/email:jg11@pm.me returned an error
02/06/2022	14:58:58	{ "error": { "type": "invalid_request_error", "message": "The requested user does not exist" } }
02/06/2022	14:58:58	Student not found in Talent, creating Student in Talent ...
02/06/2022	14:58:59	Updating PowerPro Client to align with Talent User ID: PP Client: 2021000017 Talent User: 7
02/06/2022	14:58:59	Enrolling Joana Gomez in Talent Course ID 126 Group key: 77eD6LXHH ...
02/06/2022	14:58:59	Enrolling now...
02/06/2022	14:59:00	Enrolled. Creating PowerPro Contact Log in PP.
02/06/2022	14:59:01	<<< PowerPro-Talent Integration Agent ended <<<

Image above: The Integration log