

LabCollector



User Guide Parser add-on

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1- INTRODUCTION

Thank you for choosing one of the AgileBio's solutions for the management of your lab. **Parser add-on** is a web-based solution allowing parsing data from different file format. Parsed data will be collected via API. Add-on support several third party file storage.

Parser add-on is fully integrated with **LabCollector**, the LIMS we developed for life science research labs and Biotech industries.

2- GETTING STARTED

You can get **Parser** add-on simply by downloading from www.labcollector.com. LabCollector software has to be installed first as it contains the framework. LabCollector support documents for installation are available on our website. **Parser add-on** can be installed on any operating system (Windows, MacOS X and Linux).

1/ Automatic mode from LabCollector interface:

You can also use LabCollector Menu

Admin > Setup > Upload/Add Addons > Upload Addon ZIP > Add Addon

Return to LabCollector, the **Parser add-on** module is now activated. Click on the module to finish the installation.

2/ Manual mode:

Unzip and paste **Parser add-on** folder in the extra modules folder. For Windows it would look like:

```
C:\Programs\AgileBio\LabCollector\www\lab\extra_modules\parser
```

Open LabCollector, the Parser add-on module is now activated. Click on the module to finish the installation.

The add-on will remain in a 30 days free trial mode until you save the final license in **Setup > License**. The demo version allows creating only one model/template. To obtain a valid license, you have to copy and send the activation key from **Setup > License** menu to AgileBio.

3- OVERVIEW



Parser

[Home](#) [Model List](#) [Add New Model](#) [Setup](#) ▾Parser: [Choose a parser](#) ▾ [Manual Execution](#)

File Parsing History							
showing: <input type="text"/>						show entries: 10 ▾	
#	Template/Model Name	Date	File Name	Total Parse Record	Total affected Record	Remarks	Status
First Prev Next Last							

Parser add-on is useful to parse data from different file format:

- MS spread sheet
- XML
- JSON
- Plain text
- CSV

Parsed data will be collected via an API.

This add-on supports several third party file storage:

- Dropbox
- Google Drive
- One Drive

You can also setup CRON schedule program to manage auto file parsing.

4- TEMPLATE/MODEL

To use Parser add-on, you need to create a template or model to indicate where you want to parse data, the file to parse...

4-1. Add new model or template

Parser

Home Model List **Add New Model** Setup ▾

Add/Edit New Model

DEMO MODE: Limited to 1 model.

1 Template/Model Name

2 Select File Source

3 Select File Type

API LabCollector:

API Token:

2 Directory (Full path)

4 Module Name

Submit 6

To create a new model, just click on Add New Model in the main menu. Then fill the form.

1. Give a name to your model. Each model has a unique ID used in CRON job schedule program (See section 4-2).
2. Select any predefined option from drop-down list. For the option “local directory”, you need to fill up the *Directory* field. Other three options (Dropbox, Google drive and One drive) are third party file storage system and need to be setup (see chapter 5-).
3. Parser add-on supports five types of file format. Each file format has additional configuration which provide flexibility in file data structure.
 - a. **MS Excel file:** you can specify data row start number; if multiple sheets are used, write index or sheet name separated by comma; and indicate if first row is a header.

Excel File Options

(start row)

(write excel sheet name or index number (comma separated for multiple sheets))

First Row Header

- b. **CSV file:** Choose the delimiter (semicolon or comma), the data row start number and if first row is a header.

CSV File Parsing Options: SEMICOL (;) COMMA (,) First Row Header
(Nbr of lines to ignore)

- c. **JSON file:** Specify the root tag name of the JSON file

JSON File Options
(Root Tag)

- d. **Plain text file:** Specify delimiter and data orientation.

Text File Parsing Option: _WHITE_SPAC SEMICOL (;)
(Custom Symbol)

Text File Format: Column Based Row Based

4. Select your module in the list where data will be parsed.
5. Data will be parsed in this module using the parser model via LabCollector API.
6. Validate your model

In Model list menu, now, you can access to all your models. You can edit your model to change previous data or delete it.

The screenshot shows the 'Parser' application interface. At the top, there is a navigation bar with 'Home', 'Model List', 'Add New Model', and 'Setup'. A red arrow points to the 'Model List' menu item. Below the navigation bar, a green header reads 'Template/Model List'. A message states: 'CRON/TASK file is ready. To run a parser automatically, create a task in LabCollector using 'cron_parser.php' with the ID of the parsing model. Ex: 'cron_parser.php|1'.' Below this, there is a 'showing:' field with '1 to 1 of 1 rows' and a 'show entries:' dropdown set to '10'. The main content is a table with columns: #, Model Name, File Source/ Type, Api URL, Module Name, File Directory path, Add Fields, Edit, and Delete. The table contains one row: '1', 'Parsed data', 'dropbox / csv', (empty), 'Parsed data', (empty), 'Add Fields/Parts/Tags', a pencil icon, and a trash icon. At the bottom right of the table are navigation buttons: 'First', 'Prev', 'Next', and 'Last'.

Each model/template needs to mapping among file and module. File contains file tag name or column index AND module contains database fields. You need to create a connection between them.

Add New File Parts/Tags								
	File Tag Name	Field Name	OR	Select Column Index	Database Field	Select Database Field	<input type="checkbox"/> Mark as Record ID	Add
#	Parts/Tag Name/Column Index	Database Field	Record ID	Delete				
1	1	name						
2	2	method						
3	3	lane						
4	4	meanX						
5	5	median						
6	6	quartile_1						
7	7	quartile_3						
8	8	Mbp_total						
9	9	Mbp_sup_8X						
10	10	Percentage_bp_sup_8						
11	11	nb_regions						
12	12	percentage_regions_meanX_sup_8X						

To add fields, you need to go in model list and click on **“Add Fields/Parts/Tags”** for each of your model. Then, select your file tag name or column and attribute it the database field. Click on **Add** to validate.

4-2. CRON schedule – auto parsing

You can set CRON job (schedule program) to setup auto parsing under LabCollector main interface, **ADMIN > Other > Setup** menu, section **Proxy, Tasks Scheduler and Email**.

Each task contains a script name and a time schedule.

Script name must be in predefining format like **“cron_parser.php|1”** where number corresponds to model ID.

Customs					
Custom Tasks:	Task Name	Script**	Task Frequency	Task Time	Delete
	Auto_parsed_data	cron_parser.php 1	DAILY/1	17:00	
Add New Custom Task	<input type="text"/>	<input type="text"/>	<input type="text"/>	Minute <input type="text"/> : <input type="text"/>	<input type="button" value="Add This Task"/>
(**: The script must be in "UserFiles" folder)					

To have more information on CRON task, please refer to the [KB-95](#).

5- SETUP

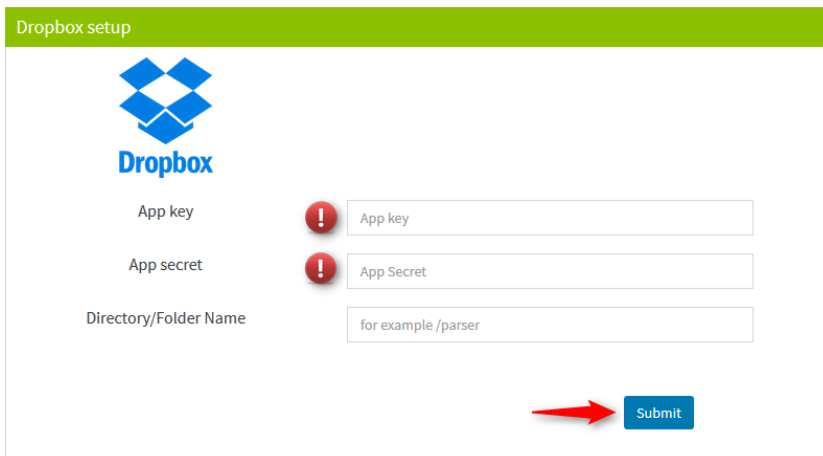
Before to use the Parser add-on, super-administrator needs to configure some options under **Setup** menu to use third party file storage.

5-1. Dropbox


To setup Dropbox as a file source, user needs to configure it properly.


The fields **App key** and **App secret** are mandatory fields.


Directory/folder name is an optional field. If no path is set, the system will search in root directory of your Dropbox account.




Dropbox setup



App key 

App secret 

Directory/Folder Name



You can get an API app key and secret by creating an app on the [app creation page](#). Once you have an app created, the app key and secret will be available on the app's page on the [App Console](#).



Create a new app on the Dropbox Platform

API v2

My apps

API Explorer

Documentation

HTTP

.NET

Java

JavaScript

Python

Swift

Objective-C

Community SDKs

References

Authentication types

Branding guide

Data ingress guide

Developer guide

OAuth guide

v2 migration guide

Webhooks

Chooser

Saver

API v1

Blog

Support

1. Choose an API

<input checked="" type="radio"/> Dropbox API For apps that need to access files in Dropbox. Learn more	<input type="radio"/> Dropbox Business API For apps that need access to Dropbox Business team info. Learn more
--	--

2. Choose the type of access you need

Learn more about access types

<input checked="" type="radio"/> App folder – Access to a single folder created specifically for your app.
<input type="radio"/> Full Dropbox – Access to all files and folders in a user's Dropbox.

3. Name your app

I agree to [Dropbox API Terms and Conditions](#)

Create app

anne-laure Sauvadet



Parser_LC

Settings	Branding	Analytics
Status	Development	Apply for production
Development users	Only you	Enable additional users
Permission type	App folder	
App folder name	Parser_LC	Change
App key	5da	
App secret	19t	

After submit your form in Parser add-on, you need to authenticate your Dropbox account using the link "Click here".



Dropbox setup

Authentication required. [Click here.](#)

You are redirected on your Dropbox account to authorize the connection to your file directory.



Parser_LC souhaite accéder à son propre dossier,
"Applications > Parser_LC", dans votre Dropbox. [En savoir plus](#)

Annuler

Autoriser

Cancel

Agreed

Once all the steps are validated, the Dropbox setup page is as follow:

Dropbox setup



Dropbox

App key

5da

App secret

19t

Directory/Folder Name

Parser_LC

Authentication OK!

Submit

6- UPGRADING AND UPDATING

To update or upgrade the **Parser Add-on** module, just download it from our website (www.labcollector.com). Then, unzip the folder and paste files in the following folder:

```
Programs\AgileBio\LabCollector\www\lab*\extra_modules\parser
```

*The name of this folder is the laboratory nickname chosen during LabCollector installation.



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