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1-INTRODUCTION

T hank you for choosing one of AgileBio's solutions. We hope it will help you to expand LabCollector's capabilities.

This add-on is a file parser that allows reading values in a file and then updating fields in a record or creating new records with some fields values updated based on the file.

The scope of the manual is for setup and basic usage. If you will be making and using highly complex files to parse or plan on integrating instruments it is recommended that you contact AgileBio for assistance.

2-INSTALLATION

You can get **Parser Add-on** by downloading it from <u>www.labcollector.com</u>. LabCollector software has to be installed first as it contains the framework upon which the add-on uses. LabCollector support documents for installation of addons are available on our website. **Parser Add-on** can be installed on common operating systems. Installation is performed by AgileBio on cloud hosted instances. Win2Parser is windows only and may be required in some scenarios.

As a general note, making a backup prior to installing or updating a new add-on is recommended.

A changelog is included in the download package and on the LabCollector website. It is also available by navigating the browser URL for your instance of LabCollector at */parser/changelog.txt.

2-1. Manual mode

Unzip and copy **Parser Add-on** folder in the extra modules folder. For Windows the default will be:

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

If using Win2Parser, download this from LabCollector.com and follow the instructions in the installation wizard.

2-2. Automatic mode from LabCollector interface

You can also use LabCollector Menu Admin > Setup > Upload/Add Addons > Upload Addon ZIP > Add Addon

Open or return to LabCollector, the **Parser Add-on** module will be activated. Click on the module to finish the installation. The initial installation and upgrades will show anything created or checked in the database.

The Add-on will remain in a 30 days free trial mode with one possible parser model until you save a license in the *Setup* menu (requires admin credentials). To obtain a valid license, you have to copy and send the activation key to AgileBio. The license will be applied by AgileBio staff on hosted instances. The license will allow the purchased number of parser models.

3- PARSER MODELS

Parser models are designed to allow the definition of what data to parse from a file to populate and/or create records based on various files.

Several aspects of LabCollector may need to be setup and populated with data and/or records to use the Parser for certain use cases. In particular, the following will generally need to be setup:

- User accounts (admin > users & staff).
- Custom/default fields (admin > custom fields and admin > default fields).
- Preferences for modules (admin > preferences).
- General setup for email server & API (admin > other > setup)
- Storage system (admin > manage storage).

Additional steps to setup LabCollector to accommodate your parsing requirements may be necessary in some cases.

Certain features and uses of Parser are only available after an appropriate part of LabCollector and the folders to use as a source of files are created and/or configured. E.g. if you want to use parser to update project codes and allow an email alert, the project code must be enabled in default fields and the email server must be configured.

3-1. Parser / LabCollector setup

The steps below describe how to ensure several essential aspects of LabCollector are setup to allow parser to function:

 Navigate to admin > setup > Web Services API and create an API for the modules of interest to update. The API token is required when defining a parser model. You will likely need to create a new API model and associated token for each parser model.

💕 Web Services AP	т					
Define a new applica	tion: 🔖					
Application						IP Restriction
Name:			Default operator: Se	elect Contact ~		O Yes O No
Modules connected to	this application:					
Strains & Cells	Plasmids	Primers	Reagents & Supplies	Samples	Antibodies	
Sequences	Animals	Equipment	Chemical Structures	Documents	Address Book	+ Add
Microarrays	Trap	Species	Batch	Field checks		

Remote applications list:		
Application	Used Modules	IP Restriction
Name: parser strains	Strains & Cells	
Default	Plasmids	
operator: admin1 ~	Primers	
Token: a50da	i2cb17 Reagents & Supplies	
	Samples	
	Antibodies	
Regenerate token	Sequences	
	Animals	
	Equipment	⊖ Yes ● No Delete ano

 Navigate to admin > setup > Proxy, Tasks Scheduler and Email and configure the email server. Note that this may already have a valid configuration. Send a test email to check.

Alert Emails Settings	
From	
То:	(ore recipiert small per line)
Email server:	Custom SMTP Server Localhost by PHP
	SMTP : (enter a valid SMTP server to use for sending emails)
	Port:
	Username :
	Password :
	Secure : None V (SSL and TLS need OpenSSL on the server) Send Test Email

A These configuration actions require the super-admin level account.

3-2. Win2Parser setup

The steps below describe how to setup Win2Parser. If your setup does not use Win2Parser, this section of the manual may be ignored.

Some parts of Win2Parser can only be completed after a model is described in the Parser module.

Win2Parser provides an interface to select a folder to parse files from and options to indicate which parser model is associated to which folder. The Parsing actions can be started or stopped. Logs may be viewed. Folder details can be created (1), edited (2) or deleted (3).

PARSER MODELS

😫 Win2Pa	arser				
Folder	URL	Retries	Action on fail		
C:\Users\agilebio\Documents\parser\pars	http://127.0.0.1/demo/		Rename		
C:\Users\agilebio\Documents\parser\Dem	http://127.0.0.1/demo/		Rename		
C:\Users\agilebio\Documents\parser\Sam	http://127.0.0.1/demo/		Rename		
C:\Users\agilebio\Documents\parser\Che	http://127.0.0.1/demo/		Rename		
		-			
145					
1		0			
Service Status running			New 2	Edit	3 Delete
Start Service Stop Service				Logs	Done

View showing list of folders and details Win2Parser will take on each. Folder column refers to the folder observed to parse into, based on the URL indicated. Retries shows how many attempts to parse will be done. Action on failure is also shown.

Folder to watch		
Folder	Browse Folde	r
URL]	
Retries 0 :		
Action Rename		
	ОК	Cancel

When you add/edit an individual folder for parsing, the folder may be selected (local to the current computer/server). The URL comes from the parser model using the link

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icon ⁽²⁾ in the model list. Retries is the number of attempts to retry upon a detected failed parsing. Action is what action will be taken on the parsed file: Moved to failed folder (a Failed folder will be created and failed files will be import in it), Rename (the file will be renamed), and Delete (the file will be deleted from the parsed folder).

3-3. Home Page

The home page of parser shows several options for admin level users to configure the parser as well as other features to review actions taken by the parser.

Parser	Home	Model List	Add New Model	Setup 🗸
Parse	r: Ch	ioose a parser	Manua	l Execution
File Parsing History				
showing:			show entries:	10 ~
# Template/Model Name • Date • File Name • Parses Records • Affected Records	• R	emarks	♦ St	atus

The home menu will bring up the screen seen above.

Model List will show the list of parsing models and allow a user of sufficient permission to edit parsing models.

Add New Model allows creation of a new parsing model.

Setup allows modification of the license and email alerts.

The file parsing history shows details on parsing. The list may be sorted by each column.

3-4. Email Setup

With this option, users can receive an alert if a file is detected as failing to parse. From the parser menu, navigate to **Setup > Email Alerts Setup**, then add email addresses.

	PARSE	ER MODELS
C Parser	Ŀ	3
Email Alerts Setup		
Notify by email if file parse fails		
Email recipients	parsing_@myemail.net;IT_Worka@mail.org	
	ingut enail accounts separated by ; Submit	
3-5. Model List & A	dding a model	
To create a new model, click on A	dd New Model.	

Template/Model Name	Model Name	
File Source	Select a File Source	Ŷ
API Token:	LabCollector API Token	
Module Name	Select a Module	~
Update/Insert:	Update records. Ignore when not found	~
File Type	Select File Type	~

A form opens and includes:

- Template/model name: this option can contain any name to aid identification of the parsing model.
- File Source: Win2Parser or an identified local folder.
- API token: The token created in admin > setup > Web Services API (refer to section 3-1).
- Module Name: select the module the parser will act on.
- Update vs insert records: By default, parser will update records if the file contains an identifier and the record exists in LabCollector. If the record does not exist, this option chooses to ignore the section of the file to parse <u>OR</u> create a new record with information from the file.

- File types: Allows an indication of the file type. Options are available based on each file type to customize the parsing model.
 - i. Upload to field. Needs to have UPLOAD type field (database upload, disk folder upload in custom fields or upload default fields).
 - ii. MS Excel. Indicate the row number where the data start, check the box if you have first row header and write the Excel sheet name or index number.
 - iii. CSV. Indicate the separator, the row number where the data start and check the box if you have first row header.
 - iv. XML
 - v. Json. Indicate the root tag name.
 - vi. Plain text. Indicate the separator, ...

The model list option will show all of the existing parser models. This will include the model name, file source, module affected as well as columns to add fields or edit actions.

Temp	late/Model List					
showi	ng: 1 to 3 of 3 rows				sho	w entries: 10 $$
	Model Name +	Fi℃Source/ Type ◆	Module Name 🔶	Folder +	Add Fields •	Actions
1	Strains	win2parser / csv	Strains & Cells		Add Fields/Parts/Tags	0 / T

In the above example, the model list shows a parsing model named strains using csv files via the Win2Parser that will affect the strains & cells module.

The model name, file source, module affected only show information. The 'Add Fields' and 'Actions' columns are interactive.

Actions allows retrieving the link information to populate Win2Parser. The URL is applied after opening Win2Parser and creating a new parsing folder or editing an existing parsing folder. Copy this to the section for URL in the folder to watch section of Win2Parser.



The trash icon allows deleting a parsing model. The pencil icon allows editing details about the parser.

Add fields/parts/tags

The menu for editing how a file is parsed:

Add New File Parts/Tags										
	File Tag Name	Field Name	OR	Selec	t Column Index 🗸	Database Field	Se	lect Database Field $ \smallsetminus $	Mark as Record ID Allow	empty Add
*	Parts/Tag Name/(Parts/Tag Name/(ୁରlumn Index			Database Field			Record ID	Allow empty	Delete Field
1	2				pid				No	ñ
2	1				count			Yes	No	Ē

Note: This menu adapts slightly based on the file type. This is a view for a csv file.

The menu has several options. The file tag name **OR** column index will locate a column of the file. For a csv file this will typically be the column header. The position in the file can also be indicated as column 1 (1st column) up to column n (nth column). Database field is the LabCollector field to be updated. 'Mark as Record ID' indicates if this field is used to identify the record. Allow empty indicates if an empty value can be tolerated. Add/Delete allows adding/removing the tag and field combination from the parsing model.

The following is an example parsing model and file.

	File Tag Name Field Name	OR Selec	t Column Index V Database Field	Select Database Field $ \smallsetminus $	Mark as Record ID	Allow empty Add
+	Parts/Tag Name/ᠿolumn Index		Database Field	Record ID	Allow empty	Delete Field
	2		pid		No	ī.
2	1		count	Yes	No	î.
		File Edi ID,PID 1,7832 2,pt52 3,KJ73 4,6783	, ,	iew Help	5	

PARSER MODELS

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The model has two columns to look at in the file. Count is the field to identify the record in LabCollector. It may not be empty. The second column is a single field the parser will update. This field is called 'pid'.

PARSING

4- PARSING

This chapter explains how to execute the parsing of a file. For additional information, refer to the knowledge base on <u>labcollector.com</u> or contact AgileBio.

4-1. Execution

To start parsing copy or move the files to parse into the designated folder. Parser and/or Win2Parser will detect the new files and begin to parse the files based on the models created for the designated folder.

The history of parsing actions is available in both the Win2Parser log as well as the parser home page.

UPGRADING AND UPDATING

5- UPGRADING AND UPDATING

To update or upgrade the **Parser Add-on** module, just download it on our website (<u>www.labcollector.com</u>). Depending on your setup you may need both parser and Win2Parser. Unzip the folder(s) and paste files in the following folder:

Ex. on Windows setup:

Programs\AgileBio\LabCollector\www\lab\extra modules\parser

As a general suggestion, we always recommend making a backup prior to performing an upgrade or update.

If your instance of LabCollector is cloud hosted with AgileBio, contact a sales or support representative to update.



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