Data Interchange – Exports, Web Calls & API, VizionHub, and DropGrid

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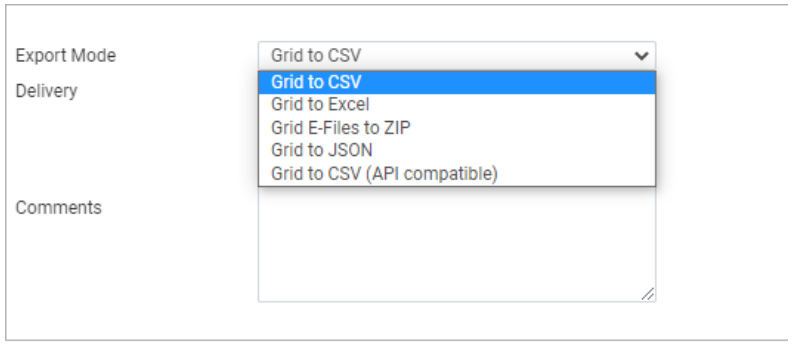
Exports

- Grid to Excel will contain coloring shown in grid.
- Grid to CSV (API compatible) produces a csv with headings that are in same format as the API expect and XitorConfiguredFieldLoad.
- Also has trackor_id for all trackor types represented in grid for more efficient API calls.
- Grid to CSV has 2 header rows. First row is what user sees (labels).
- Second row is like what standard style imports expect.
- Note that second row might not be unique.



	A	B	C	D	E
1	A:Asset ID	Loc:Ofc Location ID	Loc:Senior Local Manager	Loc:Main Office Number	Loc:Office Addr 1
2	XITOR_KEY	XITOR_KEY	LOC_SR_OFC_MGR	LOC_OFC_MAIN_NO	LOC_OFC_ADDR1
3	100001	Atlanta	Parthenia.Lafever@openphase.net	(404) 545-1000	4343 Windward Parkway Suite 100
4	100002	Atlanta	Parthenia.Lafever@openphase.net	(404) 545-1000	4343 Windward Parkway Suite 100
5	100003	Atlanta	Parthenia.Lafever@openphase.net	(404) 545-1000	4343 Windward Parkway Suite 100
6	100004	Boston	Allen.Barra@openphase.net	(508) 789-2500	1000 Hanover Square
7	100005	Boston	Allen.Barra@openphase.net	(508) 789-2500	1000 Hanover Square

Exports

- Grid to CSV (API compatible) produces a csv with headings that are in same format as the API expects.
- Headings are in format ready for standard imports.
- Has trackor_id for all trackor types represented in grid for very efficient API calls.

	A	B	C	D	E	F	G
1	ASSETS.TRACKOR_KEY	TRACKOR_KEY	LOC_SR_OFC_MGR	LOC_OFC_MAIN_NO	LOC_OFC_ADDR1	TRACKOR_ID	ASSETS.TRACKOR_ID
2	100001	Atlanta	Parthenia.Lafever@openphase.net	(404) 545-1000	4343 Windward Parkway Suite 100	1001641182	1001641569
3	100002	Atlanta	Parthenia.Lafever@openphase.net	(404) 545-1000	4343 Windward Parkway Suite 100	1001641182	1001641570
4	100003	Atlanta	Parthenia.Lafever@openphase.net	(404) 545-1000	4343 Windward Parkway Suite 100	1001641182	1001641571
5	100004	Boston	Allen.Barra@openphase.net	(508) 789-2500	1000 Hanover Square	1001641183	1001641573
6	100005	Boston	Allen.Barra@openphase.net	(508) 789-2500	1000 Hanover Square	1001641183	1001641574
7	100006	Boston	Allen.Barra@openphase.net	(508) 789-2500	1000 Hanover Square	1001641183	1001641575
8	100007	Boston	Allen.Barra@openphase.net	(508) 789-2500	1000 Hanover Square	1001641183	1001641576

API

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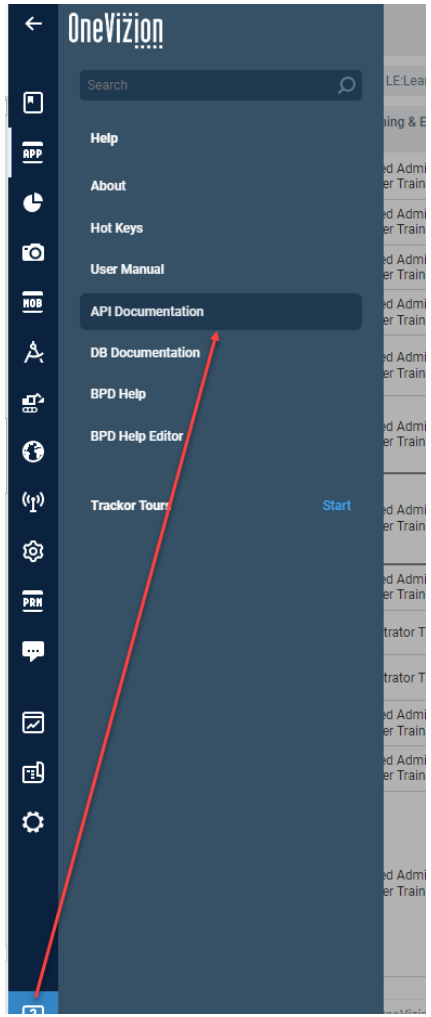
API Best Practices

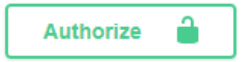
How to get to Swagger documentation

Click the Help button in the bottom left corner, then API Documentation.

This will take you to the API Docs where you can read and try out API Calls.

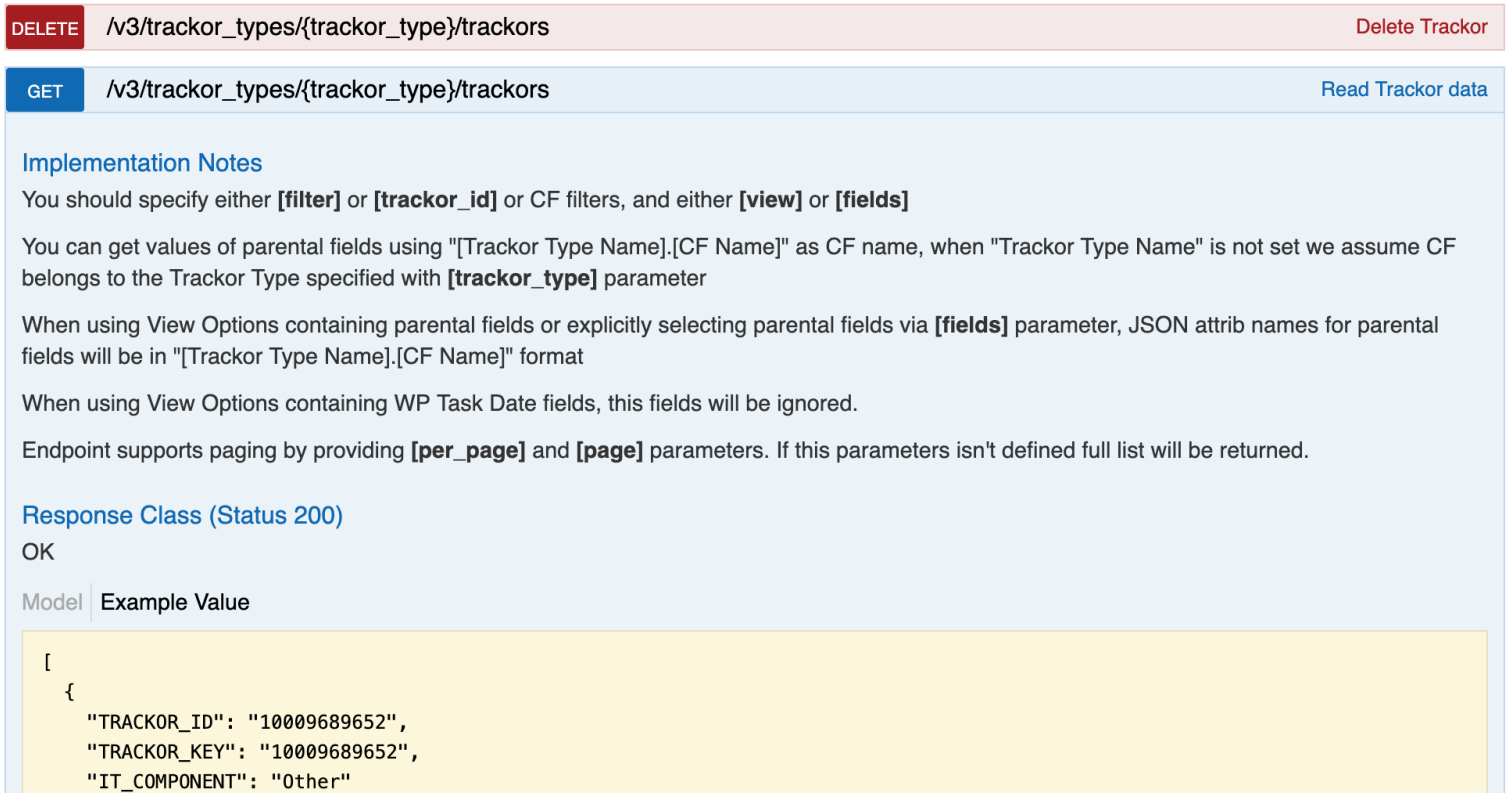


API Best Practices

Make sure you remember to click the authorize button in top left first. 

All API endpoints are documented on this page complete with sample json. Be mindful to use Trackor Type name and configured field names and not their labels.

For the “Read Trackor data” endpoint, it’s http method is “GET”, and it’s base URL is listed beside it.

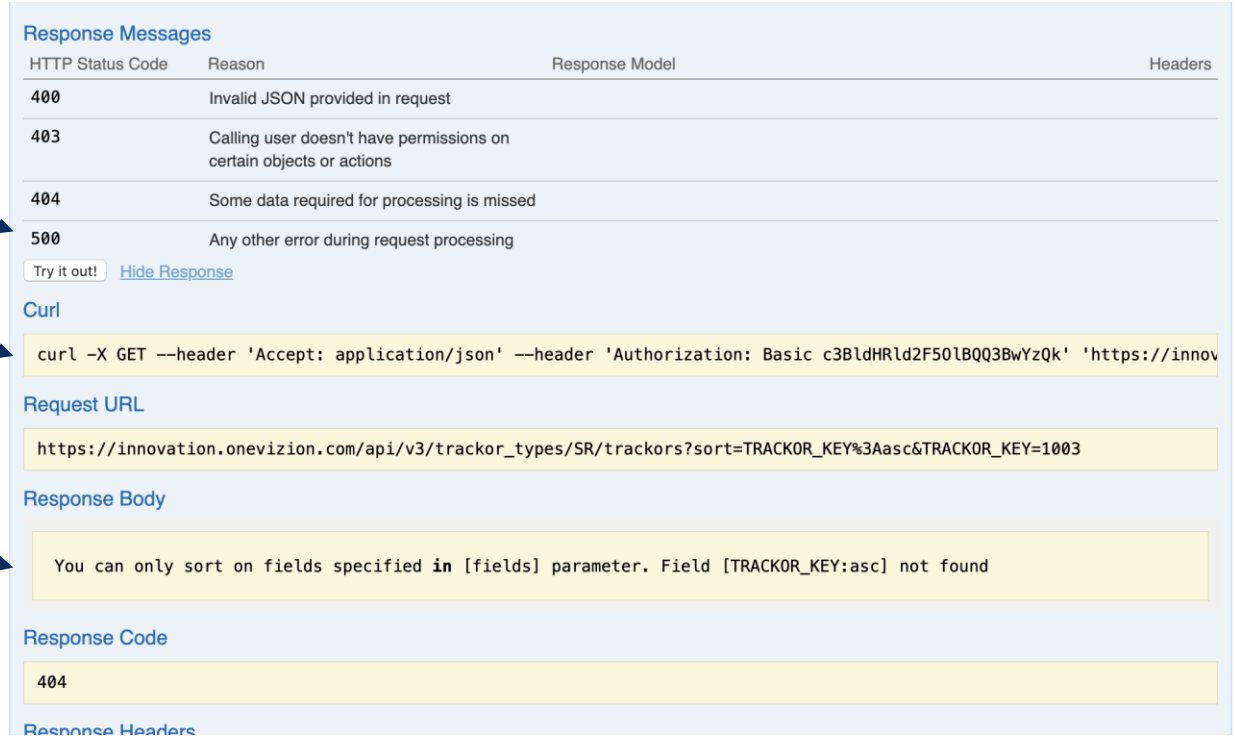


API Best Practices -How to interpret Swagger

When you click "try it out", it performs the call. It is performing it live so test here with test data because the system will be updated/deleted/read etc.

This is the Curl command that performs the exact same API call. Lots of curl documentation on the internet.

Any errors will have a helpful response to guide you to a correct solution.



API Best Practices

Loading Documents:

"Trackor Update" endpoint works but you have to base64 encode making the request larger.

"Upload Efile data" endpoint is more efficient and loads binary file directly with less stress on webserver but you cannot update other fields in same call.

If you are loading very large files such as greater than 500MB, make sure to check "upload files directly to AWS S3" on field definition. But don't use this attribute where you load photos because you don't get EXIF attributes.

Python Support:

OneVizion has a library that can be installed on any platform using "pip install onevizion" making integrations easier.

Examples can be found at
https://github.com/Onevizion/api-samples

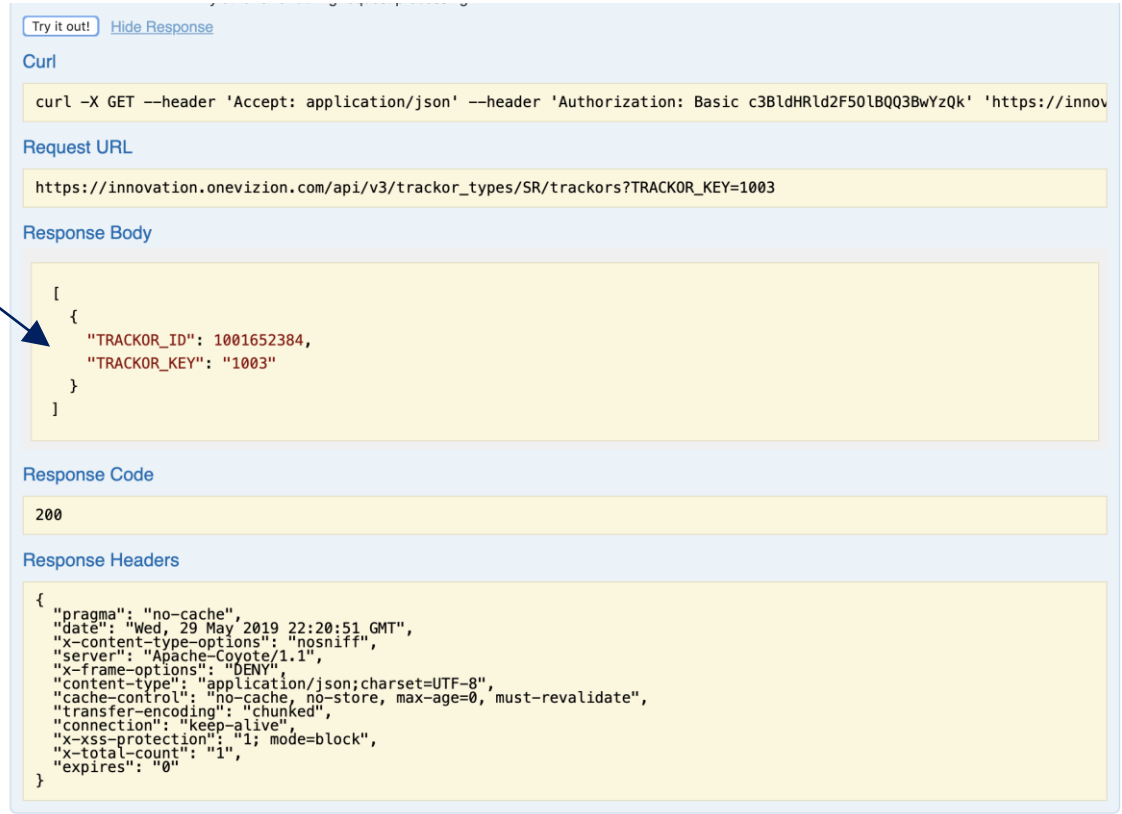
More examples will be loaded over time.

Development “Best Practices”

You can see the response body, code and headers of a successful API call.

With the successful curl, request URL, request body and headers, you have everything you need to write an interface to OneVizion.

If you use python, there are examples online and well tested libraries.



VizionHub

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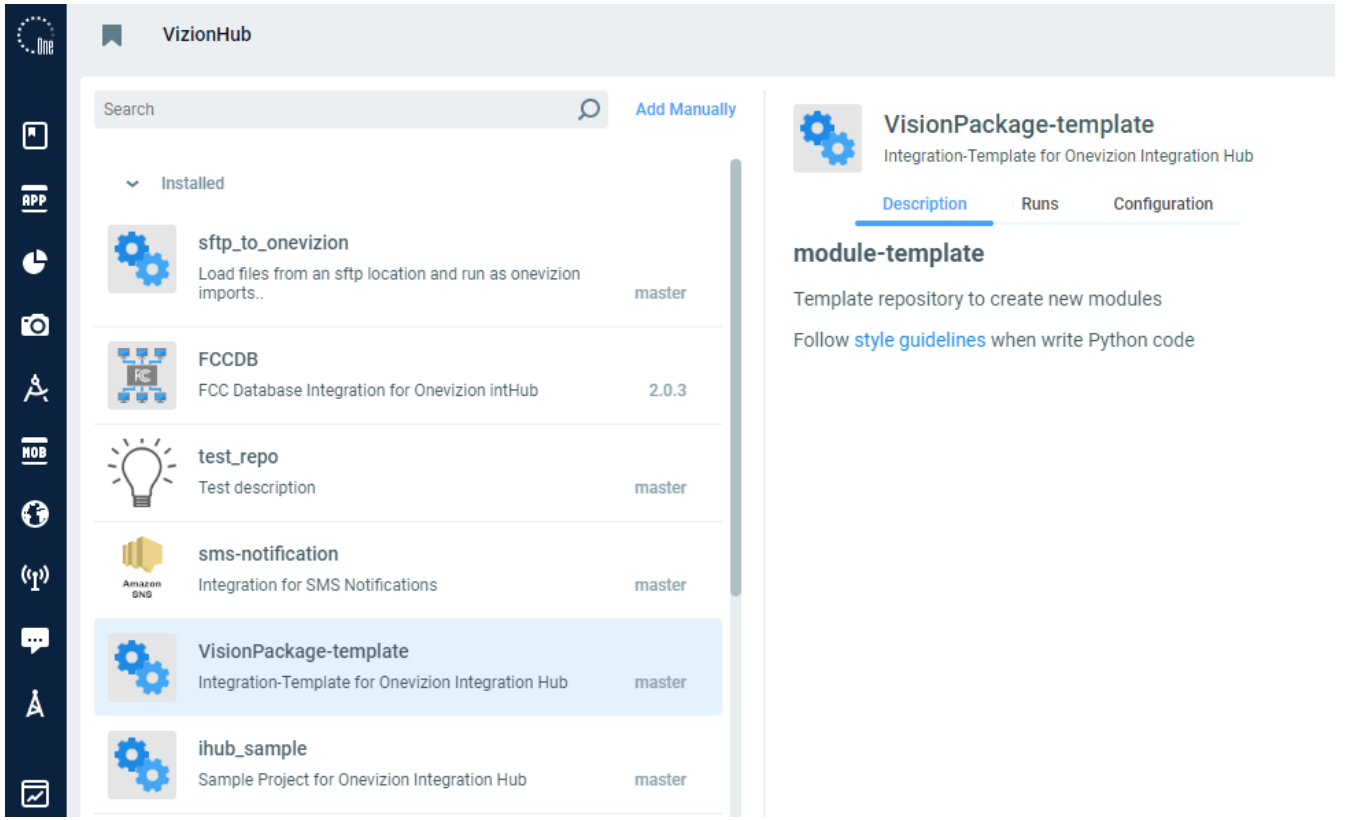
VizionHub

VizionHub allows Administrators to manage (configure and deploy) modules deployed on the OneVizion® platform.

A code module that is deployed on the OneVizion platform via Modules Library.

Examples can be a code module that can send SMS Notifications via Amazon SNS service or a code module that synchronizes records between your OneVizion platform and your system of choice.

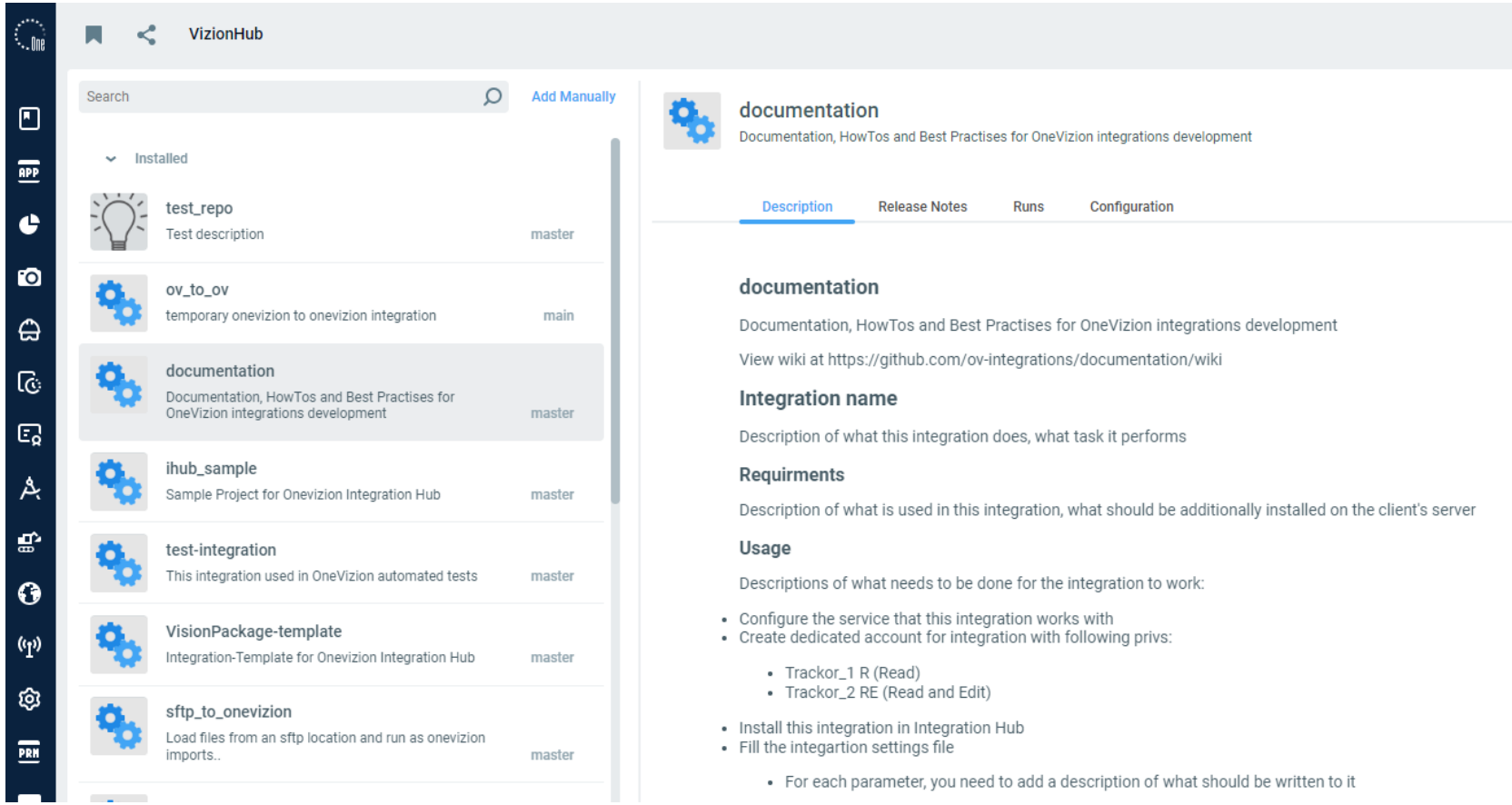
The module itself will be managed in a Git-compatible repository.



VizionHub

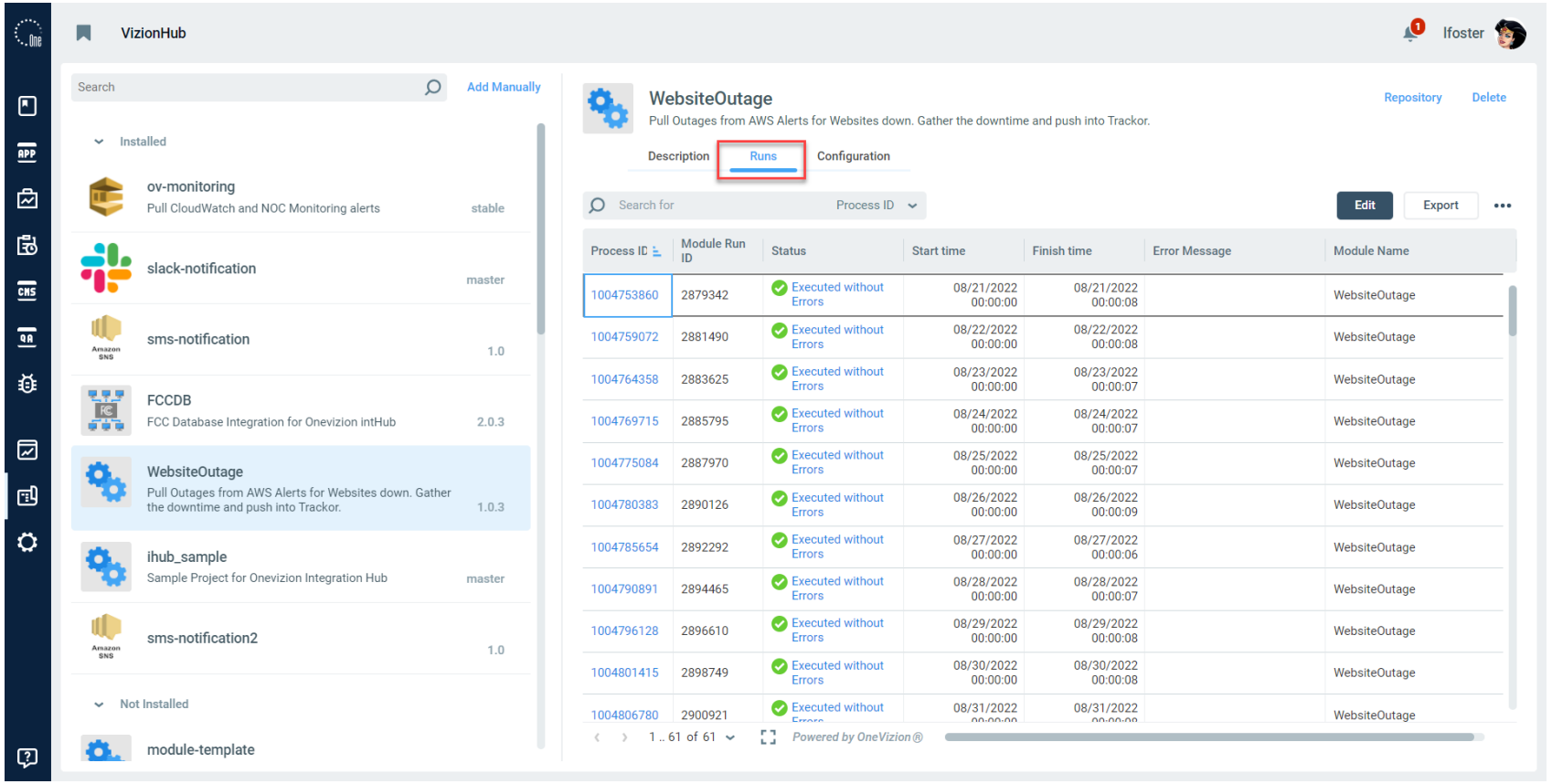
Administrators can add Modules from a pre-configured repository (Add) or by explicitly providing the repository link (Add Manually)

When System Parameters ModuleLibraryRepositoryAccount and ModulesLibraryToken are configured, users can add modules from this Account, when they click on the 'Add' button.



VizionHub

The integration run page contains each run and its associated logs are available by clicking the “Runs” button.



DropGrid

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DropGrid

DropGrid® is a data import tool that can be used to either build a new Trackors, tabs, and reports, or to import data into a pre-existing Trackor.

DropGrid works best when:

- the data is a rectangular block (i.e. Excel spreadsheet, access data table, CSV file or similar type of data)
- the spreadsheet contains the values to build the configuration in OneVizion that the data is imported into.

The DropGrid tool can create the following configuration elements:

- create or use existing Trackor®
- create new fields based on the headers of the Excel first row
- create a default tab layout based on the order of the columns in the Excel Spreadsheet
- create an Import based on the spreadsheet
- create a Report based on the spreadsheet
- create menu access items
- create a Trackor View that uses the order of the spreadsheet columns
- if latitude and longitude fields are detected create a fully configured google map and/or a google public map

- **It is important to make sure the data in the spreadsheet is consistent, meaning that the data in the columns match the appropriate data type. For instance, a date column has only dates, number columns have only numbers, etc… If a specific comment is required in a field and the data type for the field is not text, DropGrid will import this as a comment attached to that field, but not a value within itself.**

DropGrid

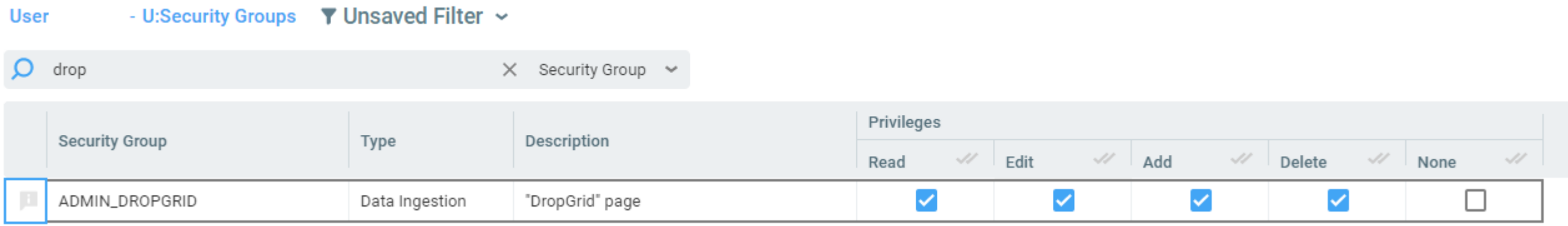
Things to Consider Before Using Dropgrid

Ensure you have proper permissions: Users who do not have full admin rights may have the ability to create new data structures using DropGrid, but lack the permissions necessary to see the structures which they have created. This can sometimes result in the DropGrid process running smoothly, but the user being unable to find the Trackor they just created. In these instances, it is likely your user account lacks appropriate permissions.

Verify DropGrid Worked Via the Trackor Browser: Once completing the DropGrid wizard, you should see your new Trackor located within the Trackor Browser

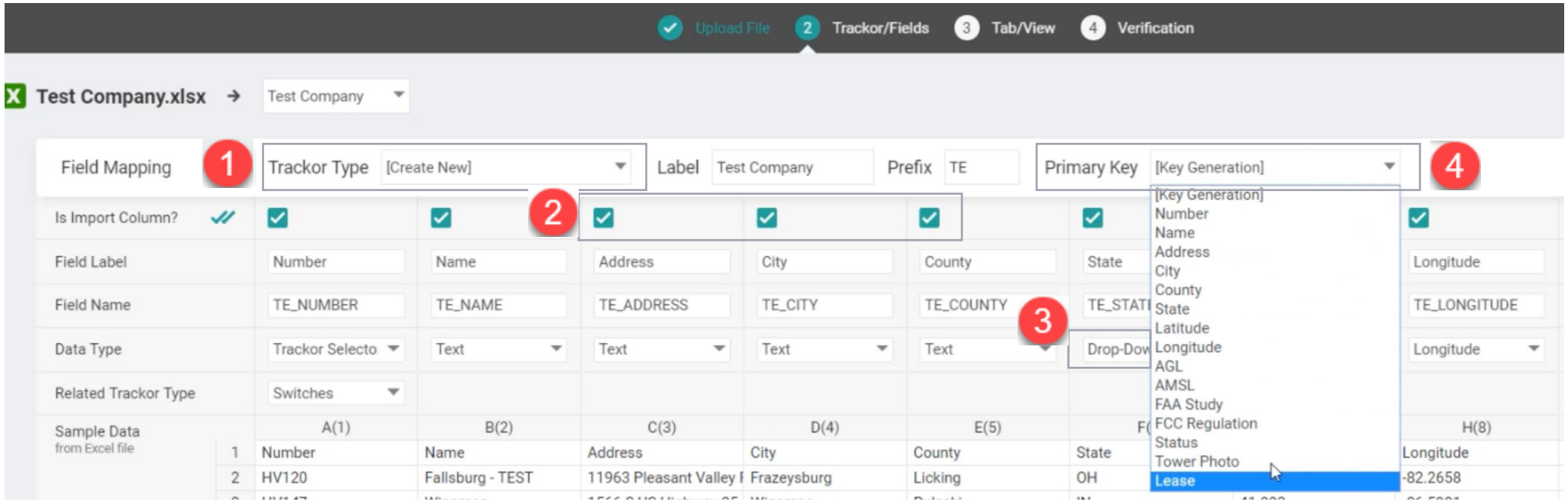
Pre-Stage Your Trackor: DropGrid works best when you have first staged the Trackor, and instead use DropGrid to simplify the process of importing the data into an empty Trackor already placed where you want it logically within the Trackor Browser.

Administrators will need the following Security Group



DropGrid – Creating Mappings

1. **Determine if you want to create a new Trackor Type or use existing.**
2. For each column, DropGrid determines a column's label and field name. It will also interrogate the data and make a best guess on data type. You can change it easily.
3. If the type is drop-down, it will create V-table and load in all choices from spreadsheet.
4. Key can be from a column



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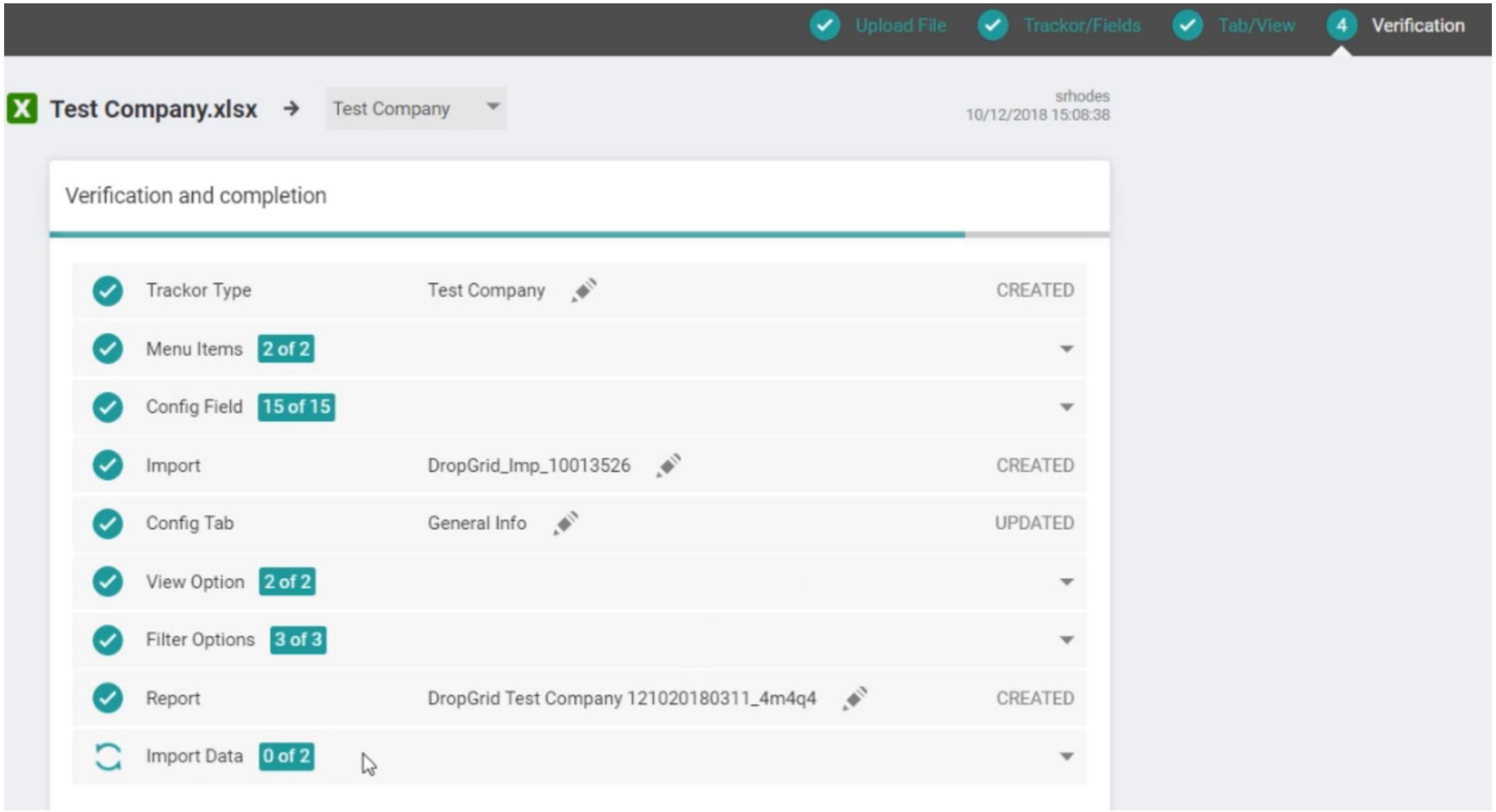
DropGrid

After run, DropGrid will have created a Trackor Type, Menu Item and assigned it, created the fields and added them to the tab, created a Default data import like the import wizard, created view/filter options, a Report and imported the data.



DropGrid - Errors

Click on import log to get normal import log for errors.

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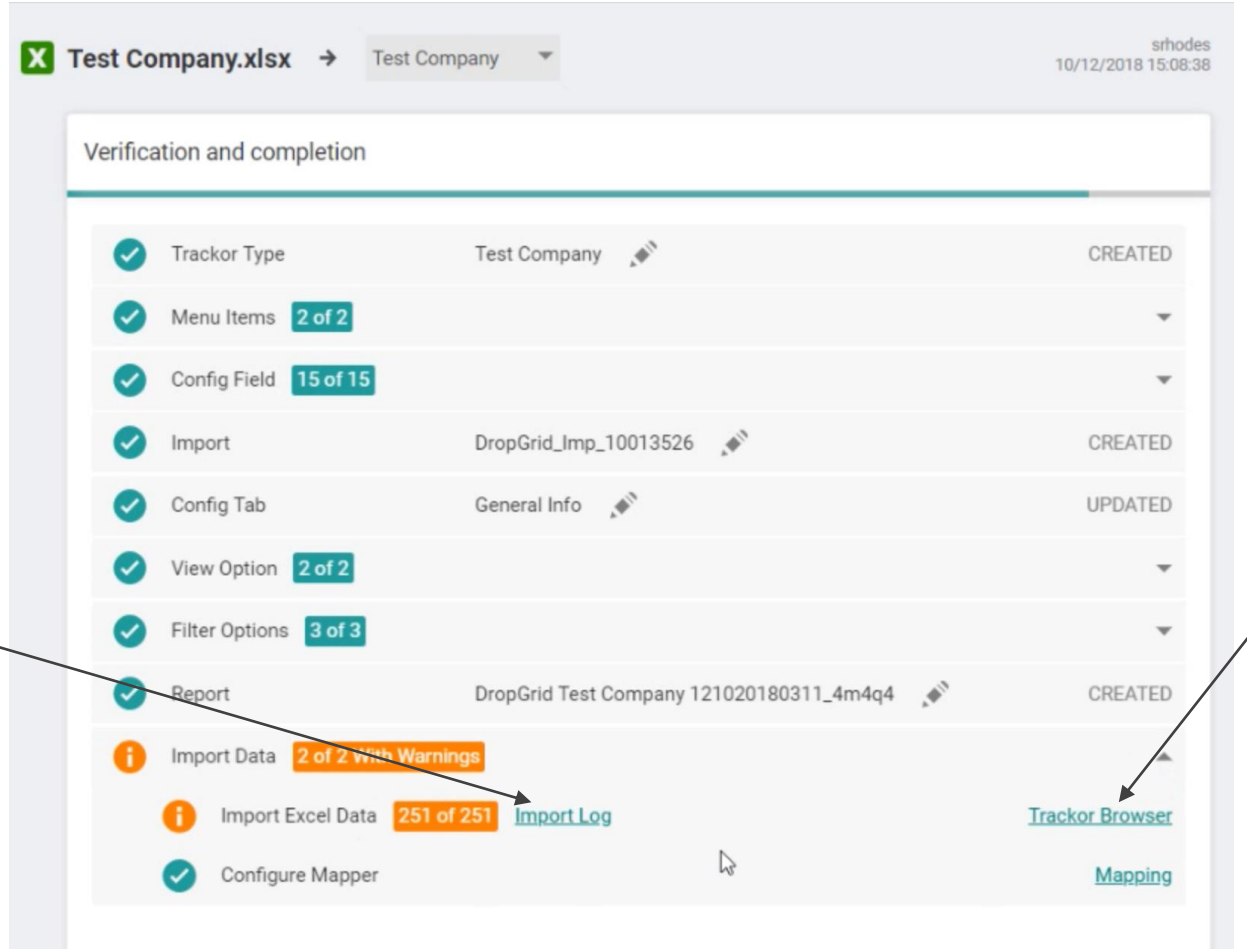
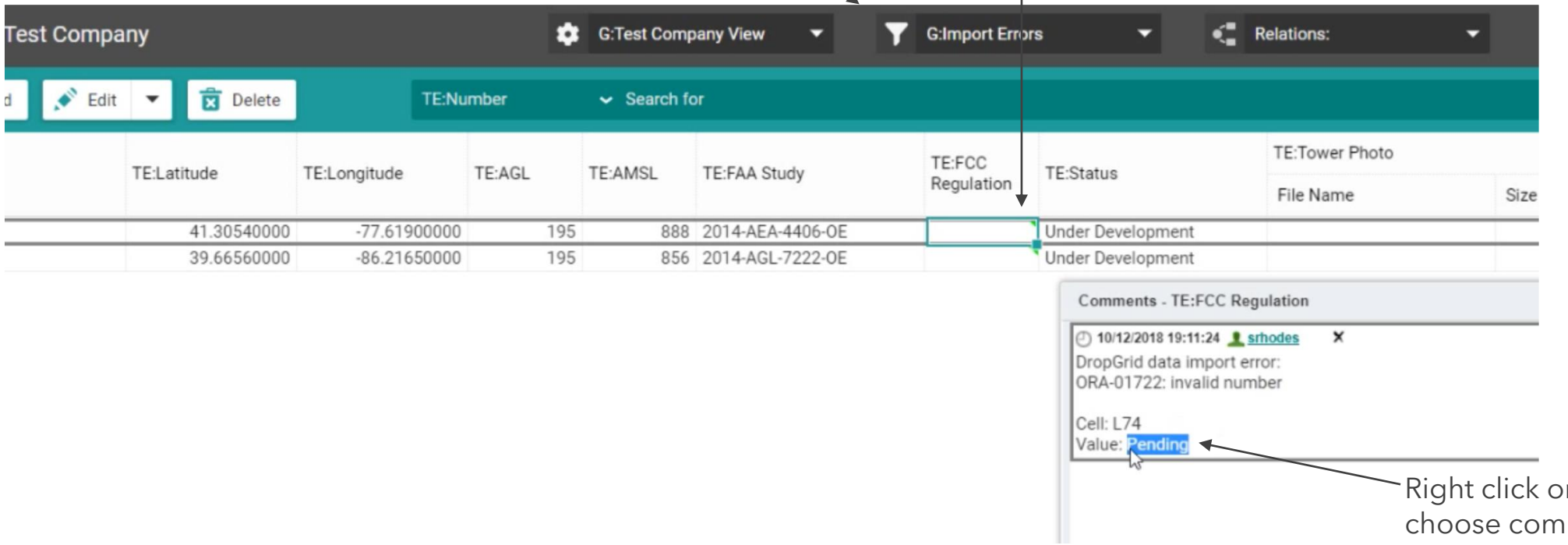


Click Trackor Browser to get a grid pre-set to the Trackor Type.

DropGrid - Errors

If there were errors in the import, it will create a global filter called Import Errors.

The errors will have a green triangle in the upper right designating that it has a comment.



Right click on the cell and choose comments to see the error.