

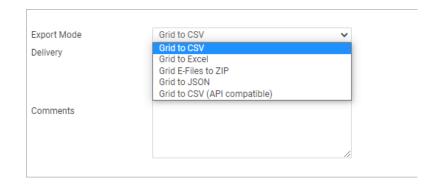
Data Interchange - Exports, Web Calls & API, VizionHub, and DropGrid



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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.



<u> </u>	,	~ V JA	Ансп. Бата сореприязелее		
/	A	В	С	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
9	100006	Boston	Allen Barra Monennhace net	(508) 780-2500	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	В	С	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
0	100007	Porton	Allan Barra Manannhasa nat	1000 700 2000	1000 Hanavar Sauara	10012/1102	1001641676





API



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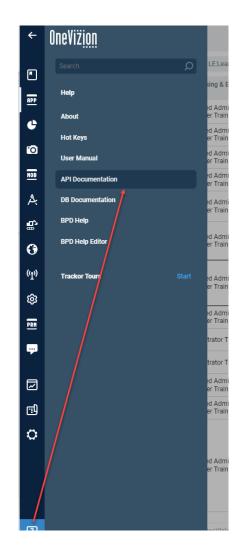
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API Best Practices

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.

Authorize 🔒

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.

DELETE /v3/trackor_types/{trackor_type}/trackors	Delete Tracko
GET /v3/trackor_types/{trackor_type}/trackors	Read Trackor data
Implementation Notes	
You should specify either [filter] or [trackor_id] or CF filters, and either [view] or [fields]	
You can get values of parental fields using "[Trackor Type Name].[CF Name]" as CF name, when "Trackor T belongs to the Trackor Type specified with [trackor_type] parameter	Type Name" is not set we assume CF
When using View Options containing parental fields or explicitly selecting parental fields via [fields] parame fields will be in "[Trackor Type Name].[CF Name]" format	eter, JSON attrib names for parental
When using View Options containing WP Task Date fields, this fields will be ignored.	
Endpoint supports paging by providing [per_page] and [page] parameters. If this parameters isn't defined for	ull list will be returned.
Response Class (Status 200)	
OK	
Model Example Value	
[{ "TRACKOR_ID": "10009689652", "TRACKOR_KEY": "10009689652", "IT COMPONENT": "0ther"	



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.

HTTP Status Code	Reason	Response Model	Headers
400	Invalid JSON provided in request		
403	Calling user doesn't have permissions on certain objects or actions		
404	Some data required for processing is miss	ed	
500	Any other error during request processing		
Try it out! Hide Res	ponse		
Curl			
curl -X GEThe	eader 'Accept: application/json'	header 'Authorization: Basic c3BldHRld2F50lBQQ3BwYzQk'	'https://inno
curl -X GEThe Request URL	eader 'Accept: application/json'	header 'Authorization: Basic c3BldHRld2F50lBQQ3BwYzQk'	'https://inn
Request URL		header 'Authorization: Basic c3BldHRld2F50lBQQ3BwYzQk' types/SR/trackors?sort=TRACKOR_KEY%3Aasc&TRACKOR_KEY=100	
Request URL			
Request URL https://innovat: Response Body	ion.onevizion.com/api/v3/trackor_		



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.

ry it out! Hide Response	
url	
curl -X GETheader 'Accept: application/json'header 'Authorization: Basic c3BldHRld2F50lBQQ3BwYzQk' 'htt	tps://innov
equest URL	
https://innovation.onevizion.com/api/v3/trackor_types/SR/trackors?TRACKOR_KEY=1003	
esponse Body	
[{ "TRACKOR_ID": 1001652384, "TRACKOR_KEY": "1003" }]	
esponse Code	
200	
esponse Headers	
<pre>{ "pragma": "no-cache", "date": "Wed, 29 May 2019 22:20:51 GMT", "date": "Wed, 29 May 2019 22:20:51 GMT", "x-content-type-options": "nosniff", "server": "Apache-Coyote(1.1", "x-frame-options": "DENY" "content-type": "application/json;charset=UTF-8", "content-type": "application/json;charset=UTF-8", "content-type": "application/json;charset=UTF-8", "content-type": "no-cache, no-store, max-age=0, must-revalidate", "transfer-encoding": "chunked", "contention": "keep-alive", "x-xso-protection": "1; mode=block", "x-xso-protection": "1; }</pre>	





VizionHub



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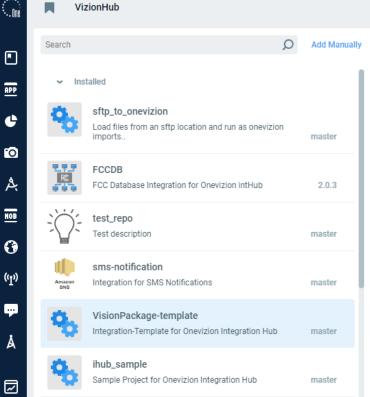
VizionHub

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 Gitcompatible repository.





VisionPackage-template Integration-Template for Onevizion Integration Hub

> Runs Configuration

module-template

Description

Template repository to create new modules

Follow style guidelines when write Python code

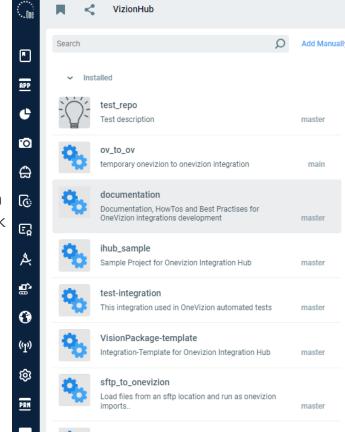


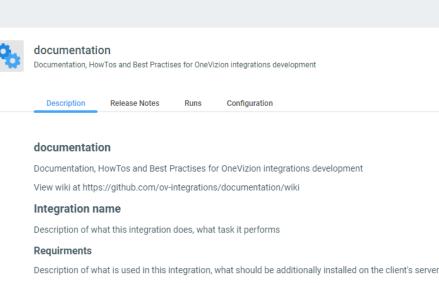
Å

VizionHub

Administrators can add Modules from a preconfigured 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.





Usage

Descriptions of what needs to be done for the integration to work:

- Configure the service that this integration works with
- Create dedicated account for integration with following privs:
 - Trackor_1 R (Read)
 - Trackor_2 RE (Read and Edit)
- Install this integration in Integration Hub
- · Fill the integartion settings file
 - For each parameter, you need to add a description of what should be written to it



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

Search	Q	Add Manually	🐴 We	bsiteOuta	re				Repository
	stalled ov-monitoring		Pull	Outages from A	WS Alerts for Websites down	wn. Gather the downtim	e and push into Tracko	г.	
ų.	Pull CloudWatch and NOC Monitoring alerts	stable	O Search for	r	Process ID	~			Edit Export
_1,	slack-notification		Process ID 🛓	Module Run ID	Status	Start time	Finish time	Error Message	Module Name
"		master	1004753860	2879342	Executed without Errors	08/21/2022 00:00:00	08/21/2022 00:00:08		WebsiteOutage
Amazon	sms-notification	1.0	1004759072	2881490	Executed without Errors	08/22/2022 00:00:00	08/22/2022 00:00:08		WebsiteOutage
			1004764358	2883625	Executed without Errors	08/23/2022 00:00:00	08/23/2022 00:00:07		WebsiteOutage
ĸ	FCCDB FCC Database Integration for Onevizion intHub	2.0.3	1004769715	2885795	Executed without Errors	08/24/2022 00:00:00	08/24/2022 00:00:07		WebsiteOutage
a.	WebsiteOutage		1004775084	2887970	Executed without Errors	08/25/2022 00:00:00	08/25/2022 00:00:07		WebsiteOutage
Ċ,	Pull Outages from AWS Alerts for Websites down. Gather the downtime and push into Trackor.	1.0.3	1004780383	2890126	Executed without Errors	08/26/2022 00:00:00	08/26/2022 00:00:09		WebsiteOutage
Ö.	ihub_sample		1004785654	2892292	Executed without Errors	08/27/2022 00:00:00	08/27/2022 00:00:06		WebsiteOutage
Ċ,	Sample Project for Onevizion Integration Hub	master	1004790891	2894465	Executed without Errors	08/28/2022 00:00:00	08/28/2022 00:00:07		WebsiteOutage
Amazon	sms-notification2	1.0	1004796128	2896610	Executed without Errors	08/29/2022 00:00:00	08/29/2022 00:00:08		WebsiteOutage
SNS		1.0	1004801415	2898749	Executed without Errors	08/30/2022 00:00:00	08/30/2022 00:00:08		WebsiteOutage
✓ No	ot Installed		1004806780	2900921	Executed without	08/31/2022	08/31/2022		WebsiteOutage







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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.



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

- U:Security Groups **Y** Unsaved Filter ~

```
drop
                                                               × Security Group
                                                                                                                   Privileges
 Security Group
                                                                  Description
                                           Type
                                                                                                                                      Edit
                                                                                                                                                         Add
                                                                                                                                                                                                None
                                                                                                                                                                            Delete
                                                                                                                   Read
                                                                                                                         \checkmark
                                                                                                                                                                \checkmark
                                                                                                                                             \checkmark
 ADMIN_DROPGRID
                                                                  "DropGrid" page
                                           Data Ingestion
```



User

DropGrid - Creating Mappings

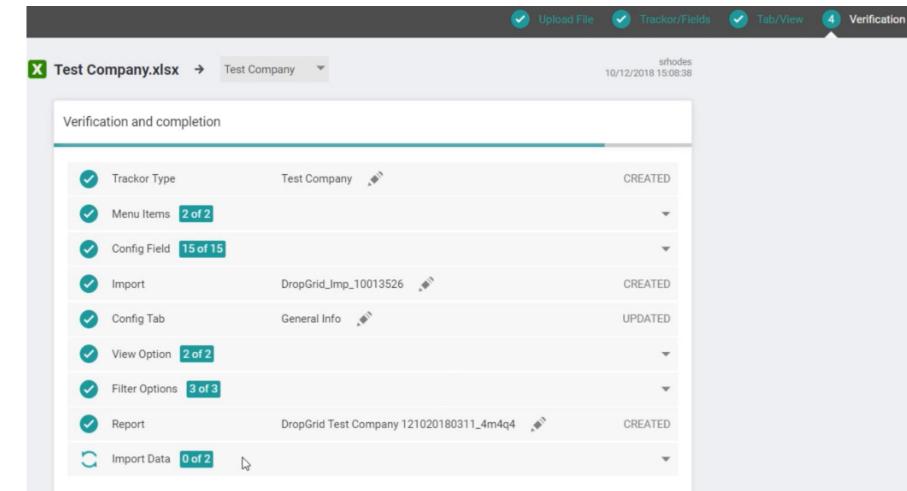
1. Determine if you want to create a new Trackor Type or use existing.

- 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

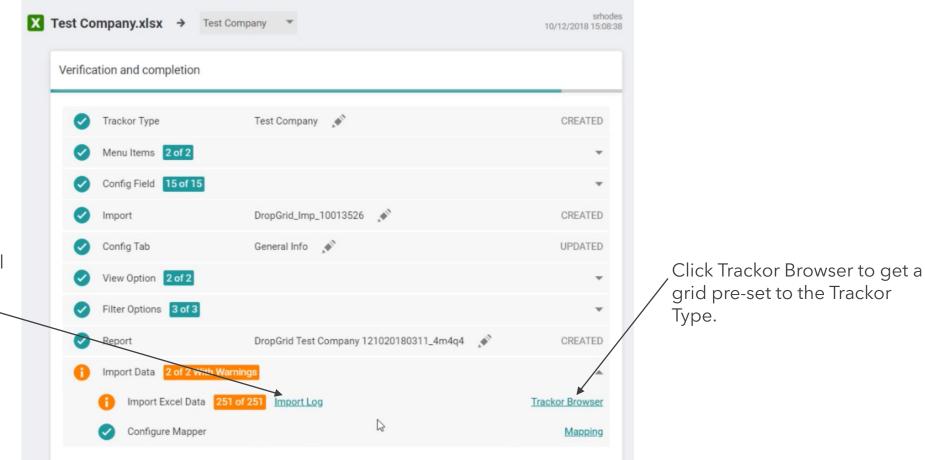
				🥑 Upload	l File 2 Trackor/Fi	elds <u>3</u> Tab/View	r Verif	ication	
Test Company.xls	(→	Test Company							
Field Mapping	1	Trackor Type [Cre	ate New]	▼ Label Tes	t Company Pr	refix TE F	Primary Key	[Key Generation]	- 4
Is Import Column?	-11		2					[Key Generation] Number Name	
Field Label		Number	Name	Address	City	County	State	Address City	Longitude
Field Name		TE_NUMBER	TE_NAME	TE_ADDRESS	TE_CITY		TE_STAT		TE_LONGITUDE
Data Type		Trackor Selecto 🔻	Text 💌	Text 💌	Text 💌	Text	Drop-Dov	Latitude Longitude AGL	Longitude
Related Trackor Type		Switches 💌						AMSL FAA Study	
Sample Data		A(1)	B(2)	C(3)	D(4)	E(5)	F	FCC Regulation	H(8)
from Excel file	1	Number	Name	Address	City	County	State	Status Tower Photo	Longitude
	2	HV120	Fallsburg - TEST	11963 Pleasant Valley	Frazeysburg	Licking	OH	Lease	-82.2658
	0	113.44.47	14.0	1544 0 110 111 1 005	140	D. Jack	18.1	44.000	07 5001



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.







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



DropGrid - Errors

