## Import Data From SurveyCTO

#### ast Modified on 02/13/2025 12:58 pm EST.

DevResults integrates fully with **SurveyCTO**, a mobile data collection tool. Surveys in SurveyCTO can be imported to DevResults as a data table. In this article:

- Tips for designing your SurveyCTO survey
- Create a DevResults data table and import SurveyCTO data
- Refresh an existing DevResults data table with SurveyCTO data
- Set up automatic import of data from SurveyCTO to DevResults
- Edit information in a SurveyCTO-linked DevResults data table
- Data validation when importing data to DevResults from SurveyCTO

**Note:** To enable the SurveyCTO integration, a site owner must go to **Administration > Settings** and enable **SurveyCTO integration** from the list of available features.

Features
You may turn off features that won't be needed by this program.
Awarding Organizations
✓ Calendar
Checklists
Data Table Row Locking
Discussions
Document Library
Form Library
Partner Dashboards
Performance
Photo Library
Relational Data Tables
SurveyCTO Integration
Financial
✓ Finance
Budget (legacy)
Multiple Funding Sources

#### Tips for designing your SurveyCTO survey

Whether or not you've already created your SurveyCTO surveys, please reach out to us at help@devresults.com to chat about the design. We can provide you with an automatically-generated file that contains the multiple choice answers to your survey questions so that all you need to do is upload it to SurveyCTO and link it to your questions. This means that:

#### 1. It **saves you time** creating the survey.

2. Most importantly, this is the best way to make sure that **what you import from SurveyCTO will match your indicator's geographic and demographic disaggregations in DevResults**. Multiple choice answers in SurveyCTO must match your disaggregation categories in DevResults in order to be imported, and we have a simple way to ensure that they match, and to keep things synced as you change or expand your program information.

3. If you're **collecting new location information via SurveyCTO**, we can help with a shortcut to add those new places to DevResults, which is also key to keeping things synced between the systems.

#### Create a DevResults data table and import SurveyCTO data

#### From any page on DevResults, go to Program Info > Data Tables.

Click (+) New Data Table, name the table, and select Import from SurveyCTO. Then click Next.

Data         Program Info         Tools         Admin           Home         > Program Info         > Data Definitions         > Data	nistra Create New I	Data Table		×	_
2 of 12 data tables shown		Household data			۹ ۵
	Data Source	<ul> <li>Design the table manually</li> </ul>			
▶ Tag		<ul> <li>Upload an example</li> <li>Import from SurveyCTO</li> </ul>			Tags
Column		Custom Query		ime, Contract Start Dat	Marginalized groups,
Column Data Type				cation, Trainee ID, Sex	Project management
• Number	Ø Cancel			→ Next ogram, Activity, Farmer	
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•	Open	Schools	128	School ID, School Location, Urban/Rur	
Disaggregation	Open	Classrooms	829	Classroom ID, School ID, Grade, Well-s	
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Has:	Open	Certifications	2,044	Certification Type, Teacher ID, Certifica	
	Open	Cohorts	100	Cohort ID, Intervention Type, Duration	
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	Open	Metadata	1,129	Activity, Activity Status, Primary Organi	
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		12 data tables			

You will now be prompted to enter information on the SurveyCTO form you would like to connect to.

You will need to enter the **Server** name (this is the prefix to your SurveyCTO URL), the **Form ID** (the name of the SurveyCTO form you want to link to), as well as your **SurveyCTO email and password** If you're unsure about any of these fields, please refer to **SurveyCTO's documentation** and then reach out to us at **help@devresults.com**.

Create New I	Data Table	×
Server	Your SurveyCTO server name .surveycto.com	
Form ID	The unique ID of your SurveyCTO form	
Email	The email address that you use to log in to SurveyCTO	
Password	Your SurveyCTO password	
	* DevResults will not store your password Need help connecting to SurveyCTO?	
+ Back	E	Next

Once you've entered this information, click Next.

You can now configure the titles and types of columns you want to import, de-select fields you don't want to import, and choose to either create the table and import data or create the table without importing data.

CompletionDate	Import field? SubmissionDate	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	Import field?	gps_location	Import field?	Import field?	2
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Dec 2, 2016 9:40:28 AM	Feb 4, 2017 8:11:50 AM	Dec 2, 2016 9:35:00 AM	Dec 2, 2016 9:40:28 AM	eastern_team	328	eastern	Johannah_Moyo	Manicaland	Mutare	-18.844307 32.617282 0.0 0.0	1	Unathi Emerald	94 CI
Dec 2, 2016 9:43:06 AM	Feb 4, 2017 8:11:21 AM	Dec 2, 2016 9:41:00 AM	Dec 2, 2016 9:43:06 AM	eastern_team	126	eastern	Mercy_Wadzanai	Manicaland	Mutare	-18.871559 32.57812 0.0 0.0	0		
Dec 2, 2016 9:50:28 AM	Feb 4, 2017 8:11:19 AM	Dec 2, 2016 9:45:00 AM	Dec 2, 2016 9:50:28 AM	eastern_team	328	eastern	Rejoice_Simelinkosi	Manicaland	Chimanimani	-19.791929 32.883911 0.0 0.0	1	Wadzanai John	70 To
Dec 2, 2016 9:51:31 AM	Feb 4, 2017 8:11:49 AM	Dec 2, 2016 9:46:00 AM	Dec 2, 2016 9:51:31 AM	eastern_team	331	eastern	Rejoice_Simelinkosi	Manicaland	Chimanimani	-19.798137 32.88043 0.0 0.0	1	Ratie Farai	22 To
Dec 2, 2016 9:52:41 AM	Feb 4, 2017 8:11:42 AM	Dec 2, 2016 9:48:00 AM	Dec 2, 2016 9:52:41 AM	eastern_team	281	eastern	Rejoice_Simelinkosi	Manicaland	Chimanimani	-19.800363 32.878166 0.0 0.0	1	Tee Wellington	24 H
Dec 2, 2016 9:52:58 AM	Feb 4, 2017 8:11:35 AM	Dec 2, 2016 9:49:00 AM	Dec 2, 2016 9:52:58 AM	eastern_team	238	eastern	Precious_Rutendo	Manicaland	Chimanimani	-19.812784 32.859427 0.0 0.0	1	Sheena Tendai	64 CP
Dec 2, 2016 10:00:50 AM	Feb 4, 2017 8:11:17 AM	Dec 2, 2016 9:55:00 AM	Dec 2, 2016 10:00:50 AM	eastern_team	350	eastern	Mercy_Wadzanai	Manicaland	Mutare	-18.865121 32.596651 0.0 0.0	1	Ronald Malvin	40 CP
Dec 2, 2016 10:12:13 AM	Feb 4, 2017 8:11:39 AM	Dec 2, 2016 10:10:00 AM	Dec 2, 2016 10:12:13 AM	eastern_team	133	eastern	Rejoice_Simelinkosi	Manicaland	Chimanimani	-19.805764 32.863596 0.0 0.0	0		
Dec 2, 2016 10:17:45 AM	Feb 4, 2017 8:11:26 AM	Dec 2, 2016 10:12:00 AM	Dec 2, 2016 10:17:45 AM	eastern_team	345	eastern	Precious_Rutendo	Manicaland	Chimanimani	-19.809852 32.858767 0.0 0.0	1	Chibi Tawanda	78 M
Dec 2, 2016 10:19:25 AM	Feb 4, 2017 8:11:25 AM	Dec 2, 2016 10:16:00 AM	Dec 2, 2016 10:19:25 AM	eastern_team	205	eastern	Mercy_Wadzanai	Manicaland	Mutare	-18.863436 32.594645 0.0 0.0	1	Nakai Anesu	33 To
Dec 2, 2016 10:20:58 AM	Feb 4, 2017 8:11:46 AM	Dec 2, 2016 10:17:00 AM	Dec 2, 2016 10:20:58 AM	eastern_team	238	eastern	Mercy_Wadzanai	Manicaland	Mutare	-18.871985 32.580137 0.0 0.0	1	Prosper Nyamuda	17 CP
Dec 2, 2016 10:39:37 AM	Feb 4, 2017 8:11:32 AM	Dec 2, 2016 10:36:00 AM	Dec 2, 2016 10:39:37 AM	eastern_team	217	eastern	Johannah_Moyo	Manicaland	Mutare	-18.854806 32.615137 0.0 0.0	1	Shoxy Nu Luk	68 CP
Dec 2, 2016 10:49:37 AM	Feb 4, 2017 8:11:51 AM	Dec 2, 2016 10:48:00 AM	Dec 2, 2016 10:49:37 AM	eastern_team	97	eastern	Rejoice_Simelinkosi	Manicaland	Chimanimani	-19.806031 32.862802 0.0 0.0	0		
Dec 2, 2016 10:51:12 AM	Feb 4, 2017 8:11:41 AM	Dec 2, 2016 10:49:00 AM	Dec 2, 2016 10:51:12 AM	eastern_team	132	eastern	Precious_Rutendo	Manicaland	Chimanimani	-19.797994 32.87509 0.0 0.0	0		
80 rows	-												
Create table and imp													
Create table without	importing the data												

Click (+) Create Data Table to complete the import process.

## Refresh an existing DevResults data table with SurveyCTO data

DevResults offers a click-to-import option to pull data from SurveyCTO to DevResults. When new information has been collected on SurveyCTO, refresh the data table by clicking on the right-hand gear icon and clicking "Import from SurveyCTO."

Home 🗧 Program Info 🗧 Data Definitions 🍵 Data Tables 🋸 Household Survey	
Household Survey	
Data Design	
E Search	<ul> <li>Import History</li> <li>Download table</li> </ul>
Add new row	Download 1 filtered item     Download empty template
□ Key Value ↓ Extern	nalKeyVa
Uuid:ef992969-2463-4222-846a-91718f45e119	T Import data

DevResults does not store external passwords, so you will be prompted to enter your SurveyCTO password once again.

You will then be asked to review the new and updated rows of information before you can complete the import. Click **Import data** once you've reviewed the new information.

	starttime   tarttime v 20, 2019 9:18:20 PM	endtime endtime Nov 20, 2019 9:19:09 PM	username  Username Jeff@devresults.com	duration duration * 49	enumerator_team enumerator_team enumerator_tean eastern	enumerator enumerator enumerator Precious_Rutendo	province province province Mashonaland_Central	district • district • Mbire	gps_location gps_location gps_location	consent consent 1	respondent_name respondent_name jdeh
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## Set up automatic import of data from SurveyCTO to DevResults

DevResults also offers a webhook-automated import option to pull data from SurveyCTO to DevResults.

1. In DevResults, **create an API key** that will be used by SurveyCTO to log into DevResults. The key should belong to a permission group that has **View & Edit** permissions for the **Data Table Manager** role; sometimes it makes sense to create a group just for the new API Key. Take note of the "API Key" field (you do not need the "API Secret" field).

Home  Administration  API Keys  My Survey	CTO API Key	
My SurveyCTO AP	I Key	
API Key Details		
Application Name	My SurveyCTO API Key	
АРІ Кеу	F+EyN2zR+XSwrx2jUfFc	
API Secret	*****	PReset API Secret
Permissions		
Group	<ul> <li>Data Table Contribut Users that can add and</li> </ul>	<b>tors</b> I edit data in all data tables

2. In SurveyCTO, **create webhooks** for each table that you'd like to automatically update.

 Point the webhook at the relevant API endpoint for each table. You can find the API endpoint at the bottom of the Design tab for each SurveyCTO-linked data table. The format for the API endpoint is:

https://{site}.devresults.com/api/dynamictables/{dynamicTableID}/webhook

- For each table, select the fields/columns that should be published to DevResults (some or all of the table).
- For each webhook, add authorization. Use a JSON text summary and call it **DevResultsApiToken**. The value that you send is the API Key value from the first step.

Include hyperlink to submission details?	
✓ Include text summary?	
JSON element name for text summary:	
DevResultsApiToken	
JSON text:	
F+EyN2zR+XSwrx2jUfFc	
Include \${fieldname} references to dynamically include field data in the text summary.	///
Embed binary fields?	
If not embedded, binary fields will be published as hyperlinks.	
Ca	ncel Save

Currently, SurveyCTO is not able to send any error messages if something is incorrect, so if the data does not import as expected, please reach out to us at **help@devresults.com** and we will investigate.

# Edit information in a SurveyCTO-linked DevResults data table

You may add/import, edit, or delete data in a SurveyCTO-linked data table just as you would any other data table. You may also add, edit, delete, or reorder columns, though any changes you make will not automatically synchronize with SurveyCTO.

**Note** : Changes made to the data as well as the structure of a SurveyCTO-linked data table will not be replicated or automatically synchronized with the survey or data in SurveyCTO. Instead, you should only make changes in DevResults to reflect changes that you have already enacted in your SurveyCTO server. When adding a new column to a SurveyCTO-linked data table, be sure to list the name of the SurveyCTO field in the **External Field** column on the DevResults data table design tab.

Each row of SurveyCTO data in DevResults is associated with both a DevResults KeyValue and a SurveyCTO **ExternalKeyValue**. This ExternalKeyValue will let you identify the same row of data in DevResults and SurveyCTO.

ExternalKeyValue	uuid:817f7797-1c0f-40be-a366-146c9032c56e	

You can look up specific rows in SurveyCTO by clicking on the **Monitor** tab, and selecting "**Look up by key"** for your form.

Design 2. Collect 3. Monitor - 4. Export Co	onfigure	For	m submi	ssions ar	nd datas	et data
Sample household listing form with sample data		LIII Monitor form data	Review workflow	Purge form data	Q Look up by key	CD Advance mode
Form ID: hh_listing_2, Complete submissions: 180 (latest Nov Look up by key	v. 18, 2019 at 11:56:18AM)					
If you have the unique key for one or more submissions (also to view those submissions in full. Use the <i>Monitor form data</i> a						
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submissions you want to view.	iculti instead to view all submissions, of i	you don				une

# Data validation when importing data to DevResults from SurveyCTO

Information imported from SurveyCTO must match the data type of the DevResults data table column it's being imported to.

Values imported to a:

- date column must be a date.
- yes/no column must be a 1 or 0.
- numeric column must be a compatible value (e.g. whole number, decimal, percentage).
- activity column must match an existing DevResults activity.
- geography column must match an existing DevResults geography.
- disaggregation column must match an existing DevResults disaggregation category.

**Note:** Data exported from SurveyCTO never contains spaces; spaces are replaced with underscores. DevResults does not distinguish between underscores and spaces for the purpose of data table imports, so the value "Conflict\_resolution" from SurveyCTO will match the value "Conflict resolution" in DevResults.

With **click-to-import**, data validation errors show in the import modal and must be resolved before data can be imported.

- The click-to-import process pulls only the survey responses that are new since the last time the click-to-import process was used.
- Anything previously imported that was then changed/deleted in DevResults will not be edited/overwritten/re-

added in subsequent imports.

With **webhook-automated imports**, data validation errors show in the diagnostics tab.

- Once validation errors are resolved, no action is needed to import the data, because SurveyCTO will periodically re-try any failed webhook pushes. Eventually the data will be imported successfully and the diagnostics tab will turn green.
- Alternatively, you can use the click-to-import option to immediately refresh results. But note: The click-to-import
  option will try to import any new data since the last time the click-to-import option succeeded, not the last time a
  webhook-automated import succeeded.
  - No duplicates will be created, because the system uses the external key value to identify rows.
  - If rows were imported via webhook between click-to-import actions, then edited in DevResults, those rows would be overwritten to what's in SurveyCTO.
  - If rows were imported via webhook between click-to-import actions, then deleted in DevResults, they would need to be deleted from SurveyCTO (because DevResults cannot update a deleted data table row).

Didn't answer your question? Please email us athelp@devresults.com.

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