

10.2 Importing Tabular Data

You can import data on the **Import Tabular CRF Data** screen. To do so, you need a Tabular Data file that contains your data and a Data Mapping file that maps your Tabular Data file columns to Form items.

When you import a flat file, each data row imports into the Form in a different Event occurrence for the specified Participant.

If you import into a Common Event, new event occurrences are created as needed. If you import into a Visit-Based Event, the data imports into existing scheduled Event occurrences.

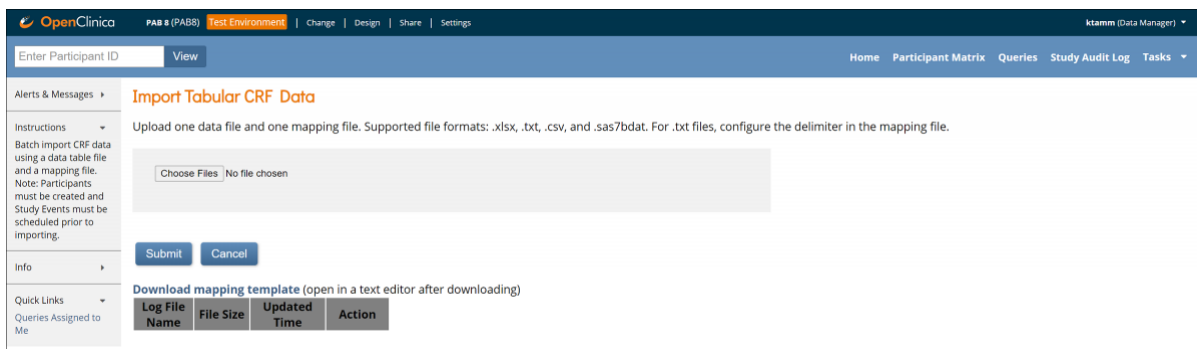
Imports appear on the **Bulk Actions Log**. You can also download the log in a .zip file that contains 5 files.

Note: The flat file import feature does not accept Participant OIDs, it Participant IDs. These are the user-defined IDs that identify Participants in user-facing pages across the system, as opposed to the automatically generated OIDs which identify the Participants on the backend.

- **This can be used to import any data except the following:**
 - Not allowed: importing into forms in non-repeating common events containing multiple forms
 - Not allowed: importing into items in repeating groups

To Import Data on the Import Tabular Data screen:

1. Download the mapping template.
2. Edit the template and save it.
3. Create a Tabular Data file.
4. Click the **Browse** button.
5. Select your Data Mapping file and Tabular Data file together by pressing the **Ctrl** key (Windows) or **Command** key (Mac) and clicking on both files.
6. Click the **Open** button.
7. Click **Submit**.



OpenClinica PAB 8 (PAB8) Test Environment | Change | Design | Share | Settings | ktamm (Data Manager)

Enter Participant ID View

Alerts & Messages **Import Tabular CRF Data**

Instructions **Upload one data file and one mapping file. Supported file formats: .xlsx, .txt, .csv, and .sas7bdat. For .txt files, configure the delimiter in the mapping file.**

Batch import CRF data using a data table file and a mapping file. Note: Participants must be created and Study Events must be scheduled prior to importing.

Choose Files No file chosen

Submit Cancel

Info **Download mapping template** (open in a text editor after downloading)

Log File Name	File Size	Updated Time	Action
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Quick Links **Queries Assigned to Me**

You can click the **Tasks** button and select **Bulk Actions Log** to check the status of the job. You can view, download, or delete the import from there.

Tabular Data File

Use this file to specify Participant IDs for the Participants with data you want to import. You can also include other data items with OIDs.

Note: The following formats are supported: text (.txt), CSV (.csv), Excel (.xlsx), and SAS datasets (.sas7bdat). If you use a text (.txt) file, you can use a delimiter of your choice, for example a comma or tab. If no delimiter is specified, the import will use a pipe (|) by default. You can specify the delimiter in your Data Mapping File, for example: **#Delimiter=t**. Note that Excel automatically formats data in a useable format, but if your data comes from another source, you might need to put the data within each column in quotes if it contains commas or other delimiter values. For example, if the data is **a | b | c | d,e,f | g**, "d,e,f" would need to be in quotes due to the commas within the data.

To Make a Tabular Data File:

1. Create a tabular file as a text (.txt) document or use another supported format (see the note above). Alternately, download the sample file to edit.
2. Include a column for Participant IDs. If not configured differently, the heading must be **ParticipantID**.
3. Enter Participant IDs.
4. Create columns for associated data for each Participant, separated by pipe characters or, if you have created a text (.txt) file, another delimiter of your choice. Any spaces before or after item values are removed upon import, so the data entered in the system will not include spaces that are in the beginning or end of the file. Column headers should match those in the Data Mapping file.

Note: Make sure to use the internal item name and response values. For example, in the image below, use **what_stage** for the item name and **stage_i**, **stage_ii**, **stage_iii**, and **stage_iv** for the responses.

Name	Item_OID	GROUP_OID	Description	Group Name	Units	PHI Status	Item Data Type	Left Item Text	Right Item Text	Default Value	Response Layout	Response Label	Response Options	Response Values
what_stage	I_CHEMO_WHAT_STAGE	IG_CHEMO_GROUP1				false	character string	What stage is the cancer currently in?			Vertical	what_stage	Stage I, Stage II, Stage III, Stage IV	stage_i, stage_ii, stage_iii, stage_iv

Data Mapping File

You can download the current Data Mapping file template on the Import Tabular CRF Data screen. The components are described below. There are also instructions included in the template in lines beginning with #.

Use this file to map each item to a column header from the Tabular Data file. To reference an item, use the format **itemgroupOID.itemOID**,

Required Configurations:

1. Under the heading, **# Study, Study Event and Form OIDs**, enter values in the following in rows:

StudyOID= StudyEventOID= FormOID= FormVersion=

Note: You can only include one Form version in a Data Mapping file. To include another version in the import, you must create a new Data Mapping file and Tabular Data file. Each pair of files must be imported separately.

2. Next to the first three rows, enter the appropriate OID.
3. Next to FormVersion, enter the name of the Form version.
4. Under the heading, **# Data file OIDs**, enter a row for the name of each column header in your Tabular Data file, followed by the corresponding Item Group OID and Item OID in the format of itemgroupOID.itemOID, where itemgroupOID and itemOID are the OIDs defined in the study for the item being mapped from the data file column. For example, to import an item under the column header, **Ethnicity**, enter **Ethnicity=IG_PHYSI_GRP3.I_PHYSI_PETHNIC**.

Optional Configurations:

You can specify which column delimiter is used in the Tabular Data File by setting the **Delimiter** value, for example, **Delimiter=|**.

You can use **Match Criteria** and **MatchAction** in the Data Mapping file to skip importing specific data or update specific data when the data in a Participant's Form matches the specified criteria. To use **Match Criteria**, you must have created Participants prior to the import.

If you want to use Skip/Match Criteria, enter **SkipMatchCriteria=itemgroupOID.itemOID**, where **itemgroupOID** and **itemOID** are the OIDs for the item defined in the study for the item used as part of the criteria. For example, to use **First Name** as criteria, enter **SkipMatchCriteria=IG_PHYSI_GRP2.I_PHYSI_FNAME**.

- a. You can enter multiple items to use as your criteria by listing them separated by commas. For example,
SkipMatchCriteria=IG_PHYSI_GRP2.I_PHYSI_FNAME,IG_PHYSI_GRP2.I_PHYSI_LNAME.
- b. You can also use **ParticipantID** or **EventRepeatKey** as match criteria by including the header for that column you've specified in the comma-separated criteria list.
 - If the Skip action has been specified and there is a match for all the criteria, that row is skipped.
 - If the Update action has been specified and there is a match for all criteria, the existing record is updated to match what is in your data file.
 - If there is no match or Skip/Match criteria are not used, the data for that row is imported.

You can elect to ignore columns in your Tabular Data File that are not referenced in your mapping file by setting the **IgnoreUnmappedColumns=yes**. If you do not use this option and your Tabular Data File has columns that are not mapped, your import will fail.

You can use the **FormWorkflowStatus** field to define a final status for your forms after import is finished. You can choose a status of **Initial Data Entry** or **Data Entry Complete**.

You can specify a **Reason for Change** in your import for any data changed due to Match Update. The default value is **Update via Import**.

After entering all configurations, save the file with the extension ".properties".

Note: To make a **.properties** file, click **File**, and select **Save As**. Then change **Save as Type** to **All Files**, and add **.properties** to the file name. If you previously saved it as a text file, you might need

to rename it to change the file type.

The Log File

- Is generated with the name **datafilename_log.txt** (The system replaces "datafilename" with the name of your Tabular Data file.)
- If a data file with the same name is used again, the existing log file from a previous upload is appended to the new log file.
- Contains the following:
 - **Row number:** The row number of the record in the Tabular Data file
 - **ParticipantID:** The value of the Participant ID in the Tabular Data file
 - **Status:** The outcome of the import indicated by the values **Completed**, **Failed**, or **Completed with Errors**
 - Message:
 - For a failed import, displays an error code.
 - For a successful import, displays the values imported or skipped.

Download the Log File:

Once the import is complete, click the **Download** button in the **Actions** column.

Common Errors

- Spaces in the Tabular Data or Data Mapping Files
- Invalid OID
- Items spelled differently in Data Test and Data Map File
- Mismatched number of columns in the Tabular Data File and entries in the Data Mapping File
- Items not in the correct format of itemgroupOID.itemOID
- Items listed by item name, not internal item name (variable)
- A status of **Completed with Errors** will be assigned if the job completed with any row failures. Rows that did not have errors will have imported successfully with this status.

Common Error Codes and Messages

Error Code	Message
errorCode.ValidationFailed	This is not the correct response set.
errorCode.ValidationFailed	You have a date value which is not in ISO 8601 format at the (Form OID) Check it and try again
errorCode.ValidationFailed	This field should be a number.
errorCode.ValidationFailed	The Event CRF you are trying to update does not have the correct status.
errorCode.ValidationFailed	Your CRF Version (Form OID) did not generate any results in the database. Check it and try again.
errorCode.ValidationFailed	Your Participant OID (Participant OID) does not reference an existing Participant in the study.
errorCode.ValidationFailed	You do not have a user role set up for (user role) in study (Study OID)
errorCode.ValidationFailed	Your Study Event (Event OID) for Participant OID (Participant OID) does not reference an existing Study Event in the Study.

errorCode.ValidationFailed	The Item Group (Item Group OID) did not generate any results in the database. Check it and try again.
errorCode.ValidationFailed	Your Form Layout OID (Form Layout OID) for Form OID (Form OID) does not reference a proper Form Layout in the Form.
errorCode.dataRowMissingPipe	Error-data file format not match header - less pipe than header
errorCode.Exception	Error processing data import request.

Approved for publication by Paul Bowen. Signed on 2023-04-28 2:48AM

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