

## Illinois Data Bank File Upload API

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### Existing Draft Dataset Required

***Files can only be uploaded to an existing draft dataset.***

A dataset is in a draft state after the deposit agreement has been accepted and before the dataset is published or scheduled for publication. Before uploading a file using the sample client or a custom application of the API, [create](#) or [find](#) your draft dataset, and navigate to the edit form for that dataset.

At the bottom of the Files section is a matrix of upload options buttons. Click the *Get token for command line tools* button to display required elements for use in the APIs. Scroll down to **Dataset Key**, a unique identifier for this dataset within the Illinois Data Bank. The dataset key does not change while the dataset exists. If a **Current HTTP Authentication Token** for the dataset exists, it will be listed above the Dataset Key. If not, click on the *Get New Token* button at the bottom of the screen to request a token.

A token expires in 3 days, but a new one can be requested using the same method.

Anyone can use a token to upload a file to this dataset, so keep it secure.

A distinct token is required for each dataset.

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### Complex File Upload API

The complex protocol, used by the sample python client, requires several coordinated calls, but supports uploading files, *up to 2TB* in size, to an existing draft dataset with an authentication token.

**Endpoint:** `https://databank.illinois.edu/api/dataset/[DATASET_KEY]/datafile`  
**Method:** POST  
**Header:** The authorization token must be sent in a header in each call, for example:  
**Authorization: Token token=[AUTHORIZATION\_TOKEN]**

A file is uploaded in three phases.

setup – a single call with three parameters

phase:	setup
filesize:	number of bytes to be expected in the whole file, max 2199023255552 (2TB)
filename:	base name and file extension

transfer – a series of calls, each with three parameters

phase:	transfer
filename:	the same base name and file extension used in the setup phase
previous_size:	the total number of bytes sent before this call
bytechunk:	the chunk of bytes (payload for this call)

verify – a single call with two parameters

phase:	verify
filename:	base name and file extension, the same one that was used in setup phase

After upload is complete, refresh the dataset page to see the new datafile listing.

For help, contact the Research Data Service at <https://databank.illinois.edu/help>.