

**Dropbox Extension Installation & User Guide**

**Version 1.0**

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# Software Change Log

|  |  |  |
| --- | --- | --- |
| Version | Release Date | Changes |
| 1.0 | 12/14/2017 | Initial Release |

# Introduction and Installation

Extensibility is a core aspect of the architecture and design of ThingWorx. Partners, third parties, and general ThingWorx users can easily add new functionality into the system, seamlessly. Extensions can be in the form of Service (function/method) Libraries, Connector Templates, Widgets, and more.

This document provides installation and usage instructions for the Dropbox Extension.

## **About the Dropbox Extension**

The Dropbox Extension allows you to configure ThingWorx entities to connect to a Dropbox account for the purpose of obtaining files and directory listing, uploading files and downloading files to and from that Dropbox account.

The Dropbox Extension for ThingWorx, provides a simple method to add basic dropbox functionality to ThingWorx entities which implement the DropBoxExtensionTemplate template. This extension requires that the user has a Dropbox application created and credentials to access the application. In this case, the user needs the application Access token.

The Dropbox Extension allows you to create a thing in ThingWorx which implements the DropBoxExtensionTemplate. The thing houses the configuration information for the Dropbox Extension and provides the following services:

1. GetDropboxList
2. DownloadFile
3. UploadFile

## **Installing the Dropbox Extension**

|  |  |
| --- | --- |
| 1. From a web browser, launch ThingWorx. 2. Log into ThingWorx as an administrator. |  |
| 1. Go to **Import/Export > Import**. |  |
| 1. Click Choose File and select DropBoxExtension.zip 2. Click **Import**.  Note: If an **Import Successful** message does not display, contact your ThingWorx System Administrator. |  |
|  |  |
| 1. Click **Yes** to refresh Composer after importing the final extension. |  |
|  |  |
| 1. Now that all of the entities have been imported, create a new Thing and set it to implement the DropboxExtensionTemplate template. |  |
| 1. Under Entity Information for the new Thing, click **Configuration**, and then **Edit**. Be sure to save the entity when editing is complete |  |
|  |  |
| 1. Fill out the accesstoken parameter to the specification of your Dropbox application from your Dropbox account. |  |
|  |  |
| 1. Services may be tested by clicking the **Services** tab and clicking **Test** on one or more of the listed services. Required parameters differ by service. |  |
|  |  |

# Dropbox Extension: Configuration and Use

Usage of the Dropbox Extension requires creation and configuration of a Thing that has the DropboxExtensionTemplate set in ThingWorx. Please refer to section 2: Introduction and Installing for additional information.

The Dropbox Extension provides the following services:

* GetDropboxList (returns an infotable listing all the files, within the specified path on the Dropbox account);
* DownloadFile (downloads a specific file from the dropbox account to the specified ThingWorx local file repository on the host);
* UploadFile (uploads a specific file from the specified ThingWorx local file repository to a specified dropbox account path);

## **Configuration**

Once the Dropbox Thing is created, it must be configured to connect to a dropbox account instance (Refer to section 2).

* Within the ThingWorx Composer, open up the Dropbox Thing
* Navigate to the Configuration section
* Under the connection settings, enter valid information to the accesstoken parameter

## **Usage**

The Dropbox Extension can be used by invoking any one of the aforementioned services either through testing, script or a Mashup environment implementation. **Input parameters** for the services are listed below:

1. **GetDropboxList**
   1. Path: This is the directory path on your dropbox account you are requesting the contents of. Enter a “//” to return the root directory. The results will be returned in InfoTable format;
2. **DownloadFile**
3. SourcePath: The exact file path on the dropbox account where the desired file is located. Enter “/” to specify the root directory. For example, if you want to download a file named Test.txt from root, your input inside the SourcePath will be: /Test.txt. Also, if you want to download a file called Test2.txt from a directory called Dir1 from root, your input will be: /Dir1/Test2.txt;
4. FileRepo: This is a ThingWorx Entity that references a local storage location. This is the location where downloaded files will be stored;
5. FolderPath: The exact directory path from the selected local storage where you want the file to be saved/downloaded.
6. FileName: This is the name of your file on your local storage. If we download a file called Test.txt, we should give him the same name that he has on the dropbox account, but if you would like you can rename it.

As an example on how to use the inputs, let’s say you want to download a file named Test.txt from your dropbox root into a folder named OLD from your local repository named Repo1 and you want the file to be named OLD\_Test.txt. This means, that you will need to provide the following information in your inputs:

SourcePath: /Test.txt

FileRepo: Repo1

FolderPath: \OLD\

FileName: /OLD\_Test.txt

1. **UploadFile**
2. Repository: This is a ThingWorx Entity that references a local storage location.
3. FilePath: This is the directory path of the file to be uploaded. This is where we specify the filename and path from inside the local storage location that we select in the **Repository** input;
4. DropBoxPath: This is the dropbox path where you want the file to be uploaded.

As an example on how to use the inputs, let’s say you want to upload a file named File1.txt from your local storage called Repository1 into your root’s dropbox account. This means that you will need to provide the following information:

Repository: Repository1

FilePath: \File1.txt

DropBoxPath: /

# Known Limitations and Compatibility

This extension was tested for compatibility with the following ThingWorx Platform version(s) and Operating System(s):

|  |  |
| --- | --- |
| ThingWorx Platform Version | ThingWorx 8.0.1 |
| OS | Windows 10, Enterprise |