# Image Distributor and Image Receiver Plugin Documentation

## Overview

The \*\*Image Distributor\*\* and \*\*Image Receiver\*\* plugins allow seamless image transfer across multiple WordPress websites. The \*\*Image Distributor\*\* plugin (installed on the main website) sends images to specified \*\*Image Receiver\*\* plugins (installed on target websites) with secure access tokens, ensuring secure and controlled file transfer.

## Requirements

- WordPress 5.5 or higher

- PHP 7.2 or higher

- OpenSSL extension enabled for secure token encryption

## Installation

### 1. Install the Image Distributor Plugin

1. \*\*Download the Image Distributor Plugin\*\* files and upload them to your main WordPress site.  
2. Go to \*\*WordPress Admin Dashboard > Plugins > Add New\*\*.  
3. Click \*\*Upload Plugin\*\* and upload the `image-distributor.zip` file.  
4. Click \*\*Activate Plugin\*\*.

### 2. Install the Image Receiver Plugin

1. \*\*Download the Image Receiver Plugin\*\* files and upload them to each WordPress site where you want to receive images.  
2. Go to \*\*WordPress Admin Dashboard > Plugins > Add New\*\* on each receiving site.  
3. Click \*\*Upload Plugin\*\* and upload the `image-receiver.zip` file.  
4. Click \*\*Activate Plugin\*\*.

## Configuration

### 1. Configuring the Image Distributor Plugin

1. Navigate to \*\*WordPress Admin > Image Distributor\*\* on the main (distributor) site.  
2. \*\*Add Receiver Websites\*\*:  
 - In the 'Receiver Websites' table, add the URLs of each WordPress site where the Image Receiver Plugin is installed.  
 - Click \*\*Add Website\*\* to add each site.  
 - After adding, click \*\*Save Websites\*\* to store the URLs.  
  
3. \*\*Upload Image to Receivers\*\*:  
 - Under the 'Upload Image to All Receivers' section, select an image file.  
 - Click \*\*Upload to All Sites\*\* to begin uploading the image to each receiver website.  
  
4. \*\*Check Upload Progress\*\*:  
 - The 'Upload Progress' table will display the upload status for each receiver website, indicating \*\*Success\*\* or \*\*Failed\*\*.  
 - If an upload fails, you can click \*\*Retry\*\* to resend the image to the failed site.

## Image Security with Secure Tokens

Each upload request from the \*\*Image Distributor\*\* includes a secure, time-limited token, ensuring that only authorized uploads are processed by the \*\*Image Receiver\*\* sites. This token is valid for \*\*2 hours\*\* after generation, after which it will expire and a new one will be generated automatically upon page refresh.

## Usage Workflow

1. \*\*Ensure Receiver Sites are Listed\*\*:  
 - Confirm all intended receiver sites are added under the 'Receiver Websites' table and saved.  
  
2. \*\*Upload an Image\*\*:  
 - Select an image and click \*\*Upload to All Sites\*\*. This will send the image to all receiver sites listed.  
  
3. \*\*Monitor Upload Progress\*\*:  
 - Observe the 'Upload Progress' table to track the status.  
 - For failed uploads, use the \*\*Retry\*\* button to attempt the upload again.

## Troubleshooting

### 1. Common Errors

- \*\*'Token is expired or invalid'\*\*:  
 - This error may occur if the upload token has expired (tokens are valid for 2 hours). Refresh the Image Distributor page to generate a new token.  
  
- \*\*'Failed to upload image'\*\*:  
 - Ensure that the receiving sites have the Image Receiver Plugin activated.  
 - Check that the provided URLs are correct and that there are no connectivity issues between the main site and receiver sites.

### 2. Debugging Tips

If an image upload repeatedly fails, verify that the \*\*Image Receiver Plugin\*\* is installed and active on the receiver sites.  
Check for any server or firewall restrictions that may block connections between the main site and receiver sites.

## Technical Details for Developers

The plugin uses AES-128-CBC encryption to secure tokens, and OpenSSL must be enabled on the server. Tokens are encrypted and transferred in a base64-encoded format with a 2-hour expiry, ensuring each upload request is authenticated and secure.  
  
- \*\*Token Expiry\*\*: Automatically refreshes every time the settings page loads on the Image Distributor site.