Linklok URL™

V2.70

Linklok URL Manual

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Chapter 1 Introduction

What is Linklok URL?

Linklok URL allows you to place links to download files on your website while securely hiding the true location of the files. The actual files linked to can actually be stored anywhere on your server (within or outside of webroot) or even on another server on the other side of the world (if supported by your server)! Links are automatically authenticated using MD5 and can be set to expire between 1 minute and several years after creation if required. Optionally Links can be locked to the IP address of the user which stops the link being shared even before it expires. There is basically no way an internet user can find out the actual location of your files.

- Securely hides true location of files on your server
- Can access files stored on another server on the other side of the world if required (if supported by the server)
- Can access files stored on Amazon S3. Ideal for delivering large files securely
- Files can be stored outside of web root for extra security if required
- Links can have expiry time from 1 minute to several years (or unlimited). Expiry time based on actual date and time is also possible
- Links can be IP address locked for the ultimate security
- Dynamically creates links in your page
- Easy to use. One line adds it to your page and each link is just one simple function call
- Can email secure download links with or without expiry time and IP address locking
- Forms are completely customizable and can collect any additional data from the user which is emailed to you.
- Emails are completely customizable using text or HTML format templates
- Can block free or other types of emails from receiving the download links
- Email forms can check for repeated submission
- Stops bandwidth theft
- Ensures only valid emails are used to download your files
- Can be used to manually email links as well
- Links can point to an html or PHP page as well as downloadable files.
- Option to log email requests to a text file
- Option to log downloads to a text file
- API calls allow developers to use the functions from PHP
- No cookies or database system required
- Turing (CAPTCHA) code option for forms
- Works with many CMS systems such as ExpressionEngine and Joomla
- Integrates with AWeber

Example uses

There are many applications for Linklok URL. The simplest use is to just hide the true location of a link. Linklok replaces the link with a special MD5 authenticated link instead. Files can be stored locally on your server, remotely on another server (uses bandwidth on both servers though) or on Amazon S3 (recommended for very large files).

Additionally you can add an expiry time to a link ensuring that if it is called later on it will be invalid. For example if Linklok URL is used to protect a link to an image with an expiry time of 1 minute then if someone copies the URL for use later they will be unlucky. This prevents other sites from linking to certain items on your site. It also prevents bandwidth theft and of course still hides the true location of the item on your server.

A common requirement on websites is to provide access to download files. Normally you would setup a form asking for a users contact details and then provide them with a download link. However you can't be sure that a user enters their valid email and once they have the download link they can reuse it whenever they wish and also share it with other users. Linklok URL solves this problem by linking itself with the form and then sending a secure download link to the user via email. If the user doesn't enter their valid email address they won't get the link. The link can be set to expire from 1 minute to several years later if required ensuring that the link cannot be reused by this or other users. Linklok can even compare the given email against a list of email addresses or servers that you wish to block. For example many users hide their identity by using free email addresses from yahoo.com and hotmail.com which Linklok URL can block if necessary. Links can also be optionally locked to the IP address (or part of an IP address) providing a high level of security against sharing.

Finally you can use Linklok URL manually to provide time expiring links perhaps allowing access for 1 year to download the latest version of your software. This is the simplest method to provide controlled support. For PHP developers we have provided some API functions so that Linklok URL can be used programmatically.

Chapter 2 Installation

Installing Linklok URL

Adding Linklok URL to your site is simply a matter of adding one line to the top of each page where you need to use secure links. Then each link that you wish to protect is replaced with a simple function call. Everything else happens automatically. Don't worry if you don't know anything about PHP as this is not important.

Setting up for the first time

Open linklokurl.php in a text editor such as notepad and find near the top of the script the following settings. You will see other settings as well but these will be described later in the manual.

```
$LinklokKey="secretkeyword";
$LinklokLocation="home/public_html/secreturl/";
$ManualPassword="letmein";
$ErrorTemplate="";

// The following variables must be set if you wish
// to use the email links feature of Linklok
$YourCompany="Company Name";
$YourEmail="sales@yoursite.com";
$CopyEmail="";
$EmailTemplate="";
$HTMLEmail="Y";
```

$LinklokKey — is the encryption key used to create secure links. Use any random word or sequence of letters and numbers. This can be any length but must be kept secret.

$LinklokLocation — is the location where you will store the protected files. There are four options here.

1) If the files are stored on the same server as Linklok (recommended) then this should be the full local file path to the folder (including the last /). If you use an obscure folder name and do not link to any files within the folder then search engines, robots and hackers will not be able to find it. Some servers allow this folder to be placed outside of the web root which

is more secure but not really necessary. Download managers and download resume are supported when $FileLocation uses a local file path.

2) If the files are stored on a remote server then enter the full URL to the folder (including the /). Remember to include the http:// at the start. Using a remote server uses bandwidth on both servers and some hosting companies/servers may even block access to files on remote servers. In this case let us know as there are some ways round this.
3) Some servers may allow you to access files via FTP on a remote server. Using a remote server uses bandwidth on both servers and some hosting companies/servers may even block access to files on remote servers. In this case let us know as there are some ways round this.
4) If you use Amazon S3 then you can enter a special path to access the files. This way you can access huge files securely without using bandwidth on your server. S3 access is described later in the manual.

An example for option 1
$Linkloklocation="/home/public_html/dfh5eyry9y/";

An example for option 2
$Linkloklocation="http://www.site.com/dfh5eyry9y/";

An example for option 3
$LinklokLocation="ftp://username:password@ftp.domainname.com:21/path/";

An example for option 4
$LinklokLocation="s3|accesskeyid|secretaccesskey|bucketname|";

Whichever option you choose ensure that the url or path is correct and ends in a slash (/) character (pipe | character for S3). You can also create subdirectories within this directory if you wish. We strongly recommend using method 1 for normal files and option 4 for large files.

$ManualPassword if set enables the manual entry form feature. This will be the password used to access the form. Set to blank ("") to disable this feature. For security make sure you change the default value of "letmein" before uploading the script to your server.

If you are planning to use the form and email features of Linklok URL then you must also set the following variables.

$YourCompany	This is your company name which will be used in the default email.
$YourEmail	Set this to your sales email address which will be used in the default email and as the from address.
$CopyEmail	If you would like to receive a copy of emails sent to users then enter your email address in this setting. If not leave as "";
$EmailTemplate	is the full local file path to an email template which will override the built in email message sent to a user when requesting secure download links. Leave this blank for now as this will be described later in further details..
$HTMLEmail	if set to "Y" will cause the default email to be sent in HTML format. This has the advantage that the secure links can be hidden behind a more friendly looking hyperlink. This will be described later.

Adding Linklok URL to a page

Linklok URL can be added to your HTML or PHP page very easily. If your page is HTML then you will need to rename it with a .php extension so that the server knows how to handle it. Don't worry as this won't affect the formatting or other features of you page. Just add the following line at the top of the page and upload linklokurl.php to the same directory on the server:-

```
<?php include"linklokurl.php"; ?>
```

This will cause the server to add Linklok URL to the page when it is accessed.

Securing a link

Find the link that you wish to protect. It will look something like this. (also works with SRC tags as well as HREF)

```
<a href="download.zip">Download Here</a>
```

To secure this link we will replace the filename with a call to the linklokurl function which will replace the link with a secure one dynamically as the page loads.

This function call looks like this.

linklokurl('filename',expiry,dialog,iplock);

filename — is the file you wish to point to. Ensure it is available in $LinklokLocation. If the file is in a subdirectory then refer to it as subdirectory/filename.

expiry — is the number of minutes before it expires. 0 means unlimited. It is also possible to set a fixed expiry date by entering the expiry as 12 digits in the format yyyymmddhhmm. So for example to have an expiry time of August 1st 2008 at 23:59 you would set the expiry time as 200808012359.

dialog — if set to 0 will try to display the file inline in the browser. This is useful for links to pictures (either .gif or .jpg) and is normally used with the html SRC tag. If set to 1 then it will force the browser to display a save-as dialog box allowing the user to decide where to save the file. This will happen automatically for some file types anyway. This setting is normally used with the html HREF tag. If the file is either an html or php page then Linklok will display it instead. Any links within these pages should be absolute.

Note that when using S3 the dialog setting is ignored and the MIME type used when uploading the file will be used. See later for details.

iplock — controls whether the link is locked to the users IP address. A value of 0 disables this feature (as does leaving off the parameter). A value of 1 will match just the first section of the IP address, 2 the first two sections, 3 the first three sections and 4 requires a complete IP address match. As some ISP's use IP address pooling we suggest setting this to 3 so that the last part of the IP can change without problem. If you don't need IP locking set this to 0.

So going back to our example link. If we want to have the link expire after 10 minutes, be IP locked and force a save-as dialog box then we would use the following call.

```
linklokurl('download.zip',10,1,3);
```

When added to the example link it will look like this after also adding the PHP start and end tags:-

```
<a href="<?php linklokurl('download.zip',10,1,3); ?>">Download Here</a>
```

The simplest way to do this for several links is to highlight the filename in the link (excluding the quotation marks which we need to keep) and paste over it the following:-

```
<?php linklokurl('file',exp,dialog,iplock); ?>
```

You can then easily set the filename, expiry time, dialog and iplock settings.

Emailing secure download links

One of Linklok URL's most useful functions is the ability to email secure download links to an email address. The optional expiry time and IP locking controls how these links can be used after receipt.

First of all you should set up a form to collect the required information from the user. Use your favorite html editor to do this. You can have as many or as few form fields as you wish. For some files you may wish to collect a full postal address and for others just a name and email address. The only requirement LinklokURL has is that the input box that you use to collect the email address must have the name 'email'. We suggest that other field names are 3 characters or more in length so that they do not clash with form fields used by Linklok. Other than that you are free to do anything you wish. Linklok URL will email you with all the users data when they submit the form.
Here is an example form that collects a name and email address from the user.

```
<form name="form" method="get" action="demo.php">
<p><input type="text" name="name"></p>
<p><input type="text" name="email"></p>
<p><input type="submit" name="button1"></p>
</form>
```

When submit is pressed the form action should be set to call the same page that contains it which in this case demo.php. LinklokURL supports both GET and POST methods.

To add LinklokURL to the form we will use the linklokemail function which looks like this.

linklokemail('filenames',expiry,emailfilter,'returnurl',iplock);

filenames — is the list of filenames you wish the user to be able to download separated by commas. Ensure that these files are available in the $LinklokLocation. If the file is contained in a subdirectory then refer to it as subdirectory/filename.

expiry — is the time in minutes that the links will remain valid. Setting this to 0 means the links will never expire. Remember to allow enough time for the email to be sent and received. Normally this would only take a few minutes so having an expiry time of 60 minutes is often sufficient. It is also possible to set a fixed expiry date by entering the expiry as 12 digits in the format yyyymmddhhmm. So for example to have an expiry time of August 1st 2008 at 23:59 you would set the expiry time as 200808012359.

emailfilter — if set to 1 will check the supplied email address against a list of blocked ones. This is useful to filter out free email addresses from yahoo.com and hotmail.com etc. Setting this to 0 allows any email address. We will describe this feature later in the manual.

returnurl — is the page that the user will be taken to after clicking submit. This must be a full URL including the http://www. part.

iplock — controls whether the link is locked to the users IP address. A value of 0 disables this feature (as does leaving off the parameter). A value of 1 will match just the first section of the IP address, 2 the first two sections, 3 the first three sections and 4 requires a complete IP address match. As some ISP's use IP address pooling we suggest setting this to 3 so that the last part of the IP can change without problem. If you don't need IP locking set this to 0.

For example if we wish to allow users to download file1.zip and file2.exe with an expiry time of 1 hour, accept any email address with IP locking and then go to http://www.yoursite.com/index.htm then the function call will look like this:-

```
linklokemail('file1.zip,file2.exe',60,0,'http://www.yoursite.com/index.htm',3);
```

You can add this anywhere between the <form> and </form> tags. In our example form it will look like this after adding the php tags:-

```
<form name="form" method="get" action="demo.php">
<input type="text" name="name"><br>
<input type="text" name="email"><br>
<input type="submit" name="button1"><br>
<?php linklokemail('file1.zip,file2.exe',60,0,
'http://www.yoursite.com/index.htm',3); ?>
</form>
```

When the page is loaded Linklok URL will add extra fields to the form dynamically to handle everything automatically. Don't worry as the user cannot change anything in the form as we use an MD5 hash to authenticate all of the special data fields which will detect any tempering.

When the user clicks submit Linklok URL will send an email to the user containing secure links to the two files and an email to you with the submitted form details.

The email sent to the client and you in this example will use the default built in template but you can create your own as described later in the manual.

One further thing that we suggest you do is to validate the fields in your form when submit is clicked. We have included an example page called demoform.php that shows how to use Linklok URL with a form and also shows how you can use Javascript to validate an email address.

Allowing the user to select a file

If you have a number of files to download and want to send only those selected by the user (rather than them all as in the example above) then you can use this method.

Setup your form as above listing all of the available files in the linklokemail() function call as normal. You can then add checkboxes to the form to allow

one or more of these files to be selected. Just name the checkboxes file1, file 2 etc and set the value to the filename. For example

```
<input type="checkbox" name="file1" value="file1.zip">
<input type="checkbox" name="file2" value="file2.exe">
```

You can also do the same with radio buttons or a drop down menu to allow one file to be selected as follows:-

```
<input type="radio" name="file1" value="file1.zip" >
<input type="radio" name="file1" value="file2.exe" >
```

Notice when using radio buttons that the field names are always file1. Here is an example using a drop down menu.

```
<select name="file1">
<option value="file1.zip">file1.zip</option>
<option value="file2.exe">file2.exe</option>
</select>
```

It should be note that although Linklok URL will ensure that only the files listed in the linklokemail() function can be accessed it could be possible to modify the radio buttons to access multiple files form the ones listed.

Chapter 3 Customizing

Email Templates

If you wish to change the simple built in email you can supply your own template which you set as follows in linklokurl.php

$EmailTemplate=”/home/public_html/template.htm”;

This will override the built in template sent to the client You should use the full file path to the template.

To use a template for the email sent to you (at the email set in $YourEmail) you can set

$NotifyTemplate =”/home/public_html/template2.htm”;

Templates can be either text or HTML format. You should set $HTMLEmail="Y" if you are using an HTML templates (.htm or .html) or wish to have links in your your text template (.txt) converted to HTML. We strongly recommend using HTML format.

If your email template is in text format then the first line of the file will be the email subject.

If your email template is in HTML format (recommended) then the page title will be used as the email subject.(i.e. <Title>Subject</ Title>).

Within the email template you use special template variables (tags) where you wish Linklok to insert data that is specific to the transaction.

!!!email!!!	Inserts the clients email address
!!!ip!!!	Inserts the users IP address.
!!!formname!!!	Inserts data from any other form field you used in your form. For example if you have a form field called name you can insert it in the template with !!!name!!!.

To insert download links or other file related details where you supply the filename(s) in the function linklokemail() or when using the manual order form use the following.

!!!filename!!!	Inserts the filename

!!!size!!!	Inserts the size of the file
!!!expires!!!	Inserts the time that the link is valid in a friendly format such as 3 hours or 1 day.
!!!link!!!	Inserts the secure link to the download file.
!!!bitlylink!!!	Inserts a bit.ky shorten link (see advanced settings)
!!!download!!!	Inserts a full download link including filename, size, expiry time and the download link.

If you have multiple download files you can create a section of text or html code that gets repeated for each download link automatically. To do this simply create the part that needs to be repeated (perhaps an HTML table row) and then place the following tag at the beginning of the section:-

```
<!--eachfilestart-->
```

and at the end of the section

```
<!--eachfileend-->
```

Here is an example email template in html format that can handle any number of download links.

```
<html>
<head>
<title>Download links</title>
</head>
<body>
Thank you !!!name!!! for your enquiry. Please use the link(s) below to download.<br><br>
<!--eachfilestart-->
Click to download <a href="!!!link!!!">!!!filename!!!</a> !!!size!!!<br>
<!--eachfileend-->
<br>
Please let us know if you have any questions.<br><br>
Your Company<br>
<a href="http://www.yoursite.com">www.yoursite.com</a><br>
<a href="mailto:sales@yoursite.com">sales@yoursite.com</a>
</body>
</html>
```

You can also insert links in the template to any particular files that are stored in the location $LinklokLocation. This can be useful for certain template designs. If you only use this method to create links and do not

need to pass in filenames in the linklokemail() functions simply use "" for the list of filenames.

!!!link(test.zip,1440)!!!	This generates a download link for test.zip that is valid for 1440 minutes (24 hours). You can set 0 for no expiry. It is also possible to set a fixed expiry date by entering the expiry as 12 digits in the format yyyymmddhhmm. So for example to have an expiry time of August 1st 2008 at 23:59 you would set the expiry time as 200808012359.
!!!bitlylink(test.zip,1440)!!!	This is the same as the above only uses a bit.ly shortened link. See advanced settings.
!!!size(test.zip)!!!	Inserts the file size of test.zip.

Here is an example use of this method.

```
<a href="!!!link(test.zip,1440)!!!">test.zip</a>!!!size(test.zip)!!!
```

Although not often required instead of using a repeated section of code for each product you can specify an actual file by sequence number using the following variables.

!!!filename_1!!!	Filename
!!!link_1!!!	The secure download link
!!!bitlylink_1!!!	The secure download link shortened by bit.ly.
!!!size_1!!!	The download size in a friendly format (e.g. 11 KB or 1.23 MB)
!!!expires_1!!!	Expiry time in friendly format or blank if no expiry. (e.g. 24 hours or 2 days etc)
!!!download_1!!!	Complete download including size & link etc.

The _1 in the place holders refers to the first file passed from the linklokemail() function or the manual order form. As Linklok supports multiple files you can also use these variables with _2, _3 etc to represent the second and third files etc. If you use for example the place holders for three files but only two are sent to the template then the third will be left blank. We strongly recommend to use the repeated section described previously instead of this method though.

Custom error page

Normally an error or message is displayed to the user directly from Linklok URL. You can however provide your own html or PHP error page template to be used instead. Within this page you can display the actual error message using the template variable !!!message!!! at the required point. To assign a template set the following in linklokurl.php.

```
$ErrorTemplate="/home/public_html/template.htm";
```

The path should be the full file path to the template. If you use a PHP page template the error message is also contained in the variable $msg.

Chapter 4 Advanced Features

Linklok URL has a number of enhancements and features that although probably not required on many installations may prove useful. This chapter describes how to use them.

Filtering email addresses

When using a form Linklok URL ensures that a user has to provide you with a valid email address before he can receive download links. However many users try to hide their identity by using email addresses from one of the many free email systems around such as yahoo.com and hotmail.com.

Linklok URL can check a supplied email address (from the form) against a list of email addresses or servers that you wish to block. The user will be shown a warning message instead of getting an email if this happens.

We have provided a list of common free email addresses but you can add or change this list as required. See two examples below.

```
$FreeEmail[]="yahoo.";
$FreeEmail[]="hotmail.";
```

Linklok URL will check to see if any of the free emails listed is contained in the supplied email address. e.g. "yahoo." Is contained in both peter@yahoo.com and peter@yahoo.co.uk so both addresses will be blocked. You can even list complete email addresses used by known hackers if you wish. Be careful with common words that could be in proper email addresses as well. E.g. we list "@australia." so that addresses like peter@australiacars.com would be allowed.

To get Linklok URL to block email addresses remember to set the third parameter in the linklokemail() function to 1.

Logging form submissions

When a Linklok URL form is submitted you will receive an email notifying you of the submission and containing the data entered by the user. You can if you wish have this data saved in a text based log file. To enable this set the following in linklokurl.php

$LinklokLog="home/public_html/log.txt";
$LinklokLog points to a text file that will be appended to for each email request. The date, time, IP address and all form fields names and values are logged. The path must be the full local file path and you must ensure that this file exists and has the correct write permission. Set to "" to disable this feature.

Logging Downloads

Linklok URL can keep a log of all downloads of protected links (inline and downloads). To enable this set the following in linklokurl.php

$LinklokDownloadLog="home/public_html/downloadlog.txt";

The path should be the full file path to the file which must of course have write permission. Each line will look like this

date,time,filename,email,ip

The email address will be included only if the link was generated during an email request. The IP address is that of the downloading client.

Download Email Notification

You can receive an email notification when a download link is clicked (or inline file displayed) by setting the following in linklokurl.php.

$NotifyDownloadEmail="you@yoursite.com";

The email you receive will contain the filename, email address (if known), ip address of downloading client, download time, expiry time and user agent.

Multiple download locations

With the default installation Linklok URL assumes that all files referred to are store in the folder (or subfolders) pointed to by $LinklokLocation. However there may be instances where you would like to have several such locations. This is particularly true if you are accessing files on remote servers. You can setup multiple locations by adding them as follows:-

```
$LinklokLocations['location1']="/path/folder1/";
$LinklokLocations['location2']="/path/folder2/";
$LinklokLocations['mysite']="http://www.mysite.com/folder/";
```

Each line defines a new Linklok location that can be used. The ['location1'] is the label assigned to the location and you can use any name you wish containing letters and numbers. When you are referring to files in one of the linklok function calls you can define the location to use by adding a colon and the location name to the filename. For example:-

```
linklokurl('download.zip:mysite',10,1,3);
```

would use the file download in the 'mysite' location. If you do not specify a location Linklok will assume the file is to be found in the default $LinklokLocation.

If you enable this feature then the manual entry form will also allow you to select which location to retrieve each file from.

Multiple email templates

As well as the default email template that is defined in $EmailTemplate it is also possible to have other email templates as well. To use this feature you must create a folder on your server where you will keep all of your email templates and set this in $Emails. e.g.

$Emails="home/public_html/emails/";

Use the full local file path to the folder including the last / character. When using the linklokemail() function call you can then define which email template to use in parameter 6 as follows:-

linklokemail('file1.zip,file2.exe',60,0,
'http://www.yoursite.com/index.htm',3,'template.htm');

The template being used must be stored in the folder pointed to by $Emails. If the template has the extension .htm or .html then the email will be sent in html format. If the template has the extension .txt then the email will be sent in text format.

If you enable this feature then the manual entry form will also allow you to select the email template to use.

Download path

Normally when a secure link is generated linklokurl.php is called for the download via the page that generated the link. Normally this is fine but there may be applications where this is not suitable. For example if you add linklokurl.php to a page that is in a password protected area the download link may fail because it cannot call the page that generated the link. To solve this situation you can define the following setting to force download links to call linklokurl.php directly.

```
$DownloadURL="http://www.site.com/linklokurl.php";
```

Adding MIME types

Linklok URL can handle any file type for download. However if you need to display a file inline in the browser instead of offering a download link then Linklok needs to know the MIME type of the file. You will find the list of supported file types listed in linklokurl.php with each entry looking like this:-

```
$mt['.jpg']="image/jpeg";
```

You can add to or edit this list as required.

Saving with alternative filenames

Normally Linklok will retrieve a file from the server and save it locally on the clients computer using the same filename. There maybe times when you wish to change the save-as filename. To do this enter the filename in the function call and append a ^ character followed by the save-as filename required. For example.

```
linklokurl('download.zip^newfilename.zip',10,1,3);
```

Please note this feature is not supported for files downloaded from Amazon S3.

Display page during download

When a download link is clicked in an email normally the browser is opened to handle this and a blank page is displayed behind the save-as dialog box. If you wish you can have a page displayed during download instead. To do this create the page to be displayed and add the following setting to enable this.

$DownloadBackground="/home/public_html/page.htm";
This should be the full local file path to the page. There may be times when the automatic download will not begin (because of browser security restrictions etc) in which case you can use the template variable !!!link!!! to include the link in the page. For example:-

Your download should begin automatically but if not please click here to start it.

CAPTCHA (turing) form validation

CAPTCHA - Completely Automated Public Turing to tell Computers from Humans Apart

To stop repeated automated download attempts you can add a CAPTCHA (turing) code field to a Linkok URL email form. This forces the user to enter a series of characters displayed as a graphic to complete the process. As these characters change each time and because they are displayed in graphic form it helps to ensure that only real users rather than automated systems are filling in the form. Here is an example.

To enable this feature copy the following files from the zip file to your server.

turingimage.php
turingbg1.jpg
turingbg2.jpg
turingbg3.jpg
turingbg4.jpg

and add the following setting to linklokurl.php.

```
$RequireTuring=1;
```

Add the following field to your form.

```
<input name="turing" type="text" value="">
```

and then display the graphic where you want using the following.

```
<img src="turingimage.php" width="60" height="30">
```

You will need to make sure the path to turingimage.php is correct.

Using Linklok URL with Amazon S3

Amazon S3 is a scaleable storage system for storing files for delivery. Linklok allows secure access to files stored on S3 thus freeing up your server from storage and bandwidth requirements. S3 is the ideal way to deliver large files (up to 5TB) efficiently and cheaply. Using S3 with Linklok URL will not use bandwidth on your server when downloading unlike a remote location using http:// or ftp. Therefore S3 is the recommended way to deliver large files if you can't handle them locally on your own server.

For more information about S3 or to open an account please visit http://aws.amazon.com/s3/

There are a number of easy to use products enabling you to upload files and access your S3 account like a folder on your PC. We can recommend the free S3Fox addon for Firefox from http://www.s3fox.net.

To setup $LinklokLocation or $LinklokLocations to use S3 then use a special path like this:-

s3|accesskeyid|secretaccesskey|bucketname|

Notice this path uses the pipe character | to split the various parts. The last | character is important too.

s3	This tells Linklok that this is an S3 path.
accesskeyid	This is the access key id provided by S3 when you open an account.
secretaccesskey	This is the secret access key provided by S3 when you open an account. You must not reveal this key.
bucketname	This is the unique bucket name where you have stored the files. S3 requires this to be **lowercase only**.

When a download link using S3 is clicked Linklok is first called to perform checks on the link and log the download etc. If all is well then it generates a secure S3 download link to the file and redirects the browser. The S3 link generated has a short 5 minute expiry time so if it is captured it will not be of much use to anyone.

Using folders in S3

There is no concept of folders in S3 but some S3 file managers like S3fox emulate folders by naming keys (files) like folder/filename.zip. Linklok can use this same idea as well. If you wish to define the folder name in the File Location then set it like this

s3|accesskeyid|secretaccesskey|bucketname|folder/

If you prefer to include the folder name in the link itself then use

folder/filename.zip

Using Linklok URL with CMS systems

Linklok URL works with many CMS systems such as Expression Engine and Joomla. In most cases though these systems call PHP functions using the eval() function so to allow this you should add these lines to linklokurl.php above all your other settings.

```
global $LinklokKey,$LinklokLocation,$LinklokLocations,$FreeEmail,$ManualPassword;
global $ErrorTempalate,$HTMLEmail,$YourCompany,$YourEmail;
global $LinklokLog,$mt,$ipaddr,$thispage,$thisurl,$NoExtraPath;
global $linklokauth,$linklokform,$password,$DownloadURL,$DownloadURLs;
$DownloadURL="http://www.yoursite.com/linklokurl.php";
```

The $DownloadURL setting in the last line should be set to the full URL to linklokurl.php on your server.

Please note it is important that the above lines are added before your other settings at the top of linklokur.php. The ideal place is directly underneath our copyright message block.

Each CMS had different methods of calling PHP so consult the documentation for help adding the function calls etc.

For Wordpress we recommend installing the phpexec plugin which allows PHP to be entered between the special tags <phpcode> and </phpcode>. Here is an example use in Wordpress.

```
<phpcode>
<?php require("/home/www/linklokurl.php"); ?>
</phpcode>

<phpcode>
<a href="<?php linklokurl('test.zip',0,1); ?>">Download Here</a>
</phpcode>
```

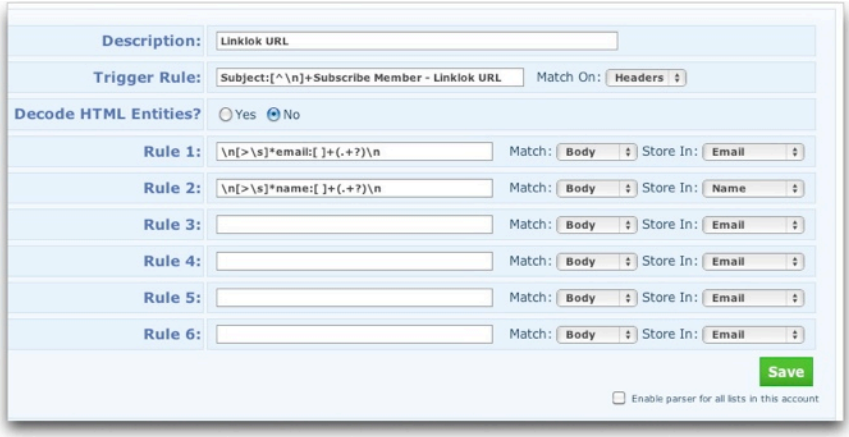
Integrating with AWeber

AWeber is a popular email marketing service. Linklok URL forms can now automatically add the user to your AWeber mailing list. The user will of course still receive a confirmation email from AWeber to complete the process.

AWeber email parser setup

Before Linklok URL can submit users to AWeber you need to enable email parsing in your AWeber account. This tells AWeber to read the email it receives from Linklok and to strip out the data to store in each field. To set this up follow these steps.

1) Sign in to your AWeber admin panel
2) Hover over the **MY Lists** menu and click **Email Parser** in the drop down menu.
3) Ensure the list you want to use is selected in the **Current List** drop selector.
4) Scroll down to **Custom Parsers** and click **add new**.
5) Enter the fields so that the form looks exactly like this



As this image may not be very clear here is the text that you can copy and paste in to each field.

Trigger Rule
Subject:[^\n]+Subscribe Member - Linklok URL

Rule 1
\n[>\s]*email:[ ]+(.+?)\n

Rule 2
\n[>\s]*name:[ ]+(.+?)\n

6) Scroll down and click **Save**.

The above will enable Linklok URL to subscribe a user using their name and email address. If you wish to store other fields collected in your form into AWeber custom fields then you can add further Rules like this.

\n[>\s]*fielname:[ ]+(.+?)\n

Replace fieldname with the field name used in your form.

Enable AWeber in Linklok URL

Add the following setting near you other settings in linklokurl.php.

$AWeberList="yourlistname@aweber.com";

Make sure yourlistname is set to the name of your list.

Using a different AWeber list for different forms

To force a different list for a particular Linklok URL form just add this line to the form.

<?php linklokaweberlist("yourlistname@aweber.com"); ?>

This line can be anywhere between the <form> and </form> tags.

Use bit.ly shortened links in emails

bit.ly provides a link shortening service that can now be used for Linklok URL links that are emailed. Once enabled you can use the following email variables to generate shortened links. This is particularly useful if you use text format emails as it keeps the links short.

!!!bitlylink!!!
!!!bitlylink_1!!!
!!!bitlylink(test.zip,1440)!!!

See the email section for more details about those variables.

To enable bit.ly support in Linklok you first need to open a user account at bit.ly and then request an API key. Once ou have these add these two settings to linklokurl.php near your other settings.

```
$BitlyLogin="username";
$BitlyKey="key";
```

Linklok URL doesn't currently support bit.ly for links generated in web pages as this could cause you to go over your API quota.

Integrating with GetResponse

GetResponse is a popular email marketing service. Linklok URL forms can now automatically add the user to your GetResponse campaign. The user will of course still receive a confirmation email from GetResponse to complete the process.

To enable this feature

1) Add the following lines to linklokurl.php near your other settings.

```
$getresponseapikey = "a6ade537a9b6c76d4a57c";
$getresponsecampaign="name";
require_once("jsonRPCClient.php");
```

2)Upload the file jsonRPCClient.php available from GetResponse to the same place as linklokurl.php

3) Set your GetResponse API key and campaign as required in the above settings.

The above will add all users to your campaign.

Using a different AWeber list for different forms

To force a different campaign for a particular Linklok URL form just add this line to the form.

```
<?php linklokgetresponse("name"); ?>
```

This line can be anywhere between the <form> and </form> tags.

Control repeated form submission

Some applications may require that a user can only submit a Linklok URL form once using a certain email address or IP address. To enable this feature ensure that you have first setup the loggin of form submissions using $LinklokLog as explained earlier in this manual. Then add one or both of the following settings to linklokurl.php.

$AllowEmailOnce=30;

This line will only allow the same email addres to be used for receiving download links once in a 30 day period. You can set any number of days or 0 which ensures the email can only be used once. To disable this setting delete the line completely.

$AllowIPOnce=30;

This line will only allow the same IP address to be used for the form submission once in a 30 day period. You can set any number of days or 0 which ensures the IP can only be used once. To disable this setting delete the line completely.

These settings will only be able to check back for the period that the log file is kept.

Setting up a promotional form

Normally a Linklok form will send the download link email to anyone who submits it. There are some cases where you may like to collect the details of everyone who submits the form but only send the download link to the first few in a certain period. For example if you have just released a brand new eBook you could use this feature to provide a free download link to the first 50 users who submit the form each day. Further users will still have their details logged and emailed to you but will receive a different email (perhaps containing a link to your buy button) and get sent to a different thank you page.

To use a promotional form set your form up and enable the log file as described earlier in the manual and then add these settings to linklokurl.php near your other settings.

```
$PromotionExpiry="200908102359";
$PromotionLimit=50;
$PromotionPeriod=1;
$PromotionRedirect="http://www.yoursite.com/toolatepage.php";
$PromotionEmailTemplate="toolateemail.htm";
$PromotionFile="ebook.pdf";
```

$PromotionExpiry This sets an end date to your promotion. Once past this date all users will be treated as not qualifying for the download. The date and time should be in the format "YYYMMDDHHMM". If you do not want an end date for your promotion you can set this to "".

$PromotionLimit This sets the number of users who can get the download within each set period.

$PromotionPeriod This sets the length of the promotion period. It is during this number of days that $PromotionLimit users get the download email.

$PromotionRedirect This is the thank you page users are sent to when they do not qualify for the download.

$PromotionEmailTemplate This is the path to the email template sent to the user when they do not qualify for the download. If they do qualify the standard email set in $EmailTemplate (or sent in the function call) will be sent.

$PromotionFile This is the filename (without the path) of the file being delivered. It is used to match against entries in the log file to determine how many have been delivered during the relevant period.

You can combine this feature with the email and IP address checking described earlier. This stops the same person submitting the form several times during the promotion period.

Passing data to a link

If you make a secure link to a .php page then you can send data via the URL (GET data). For example

```
<a href="<?php linklokurl('page.php?id=23&cat=1',10,1,0); ?>">Download Here</a>
```

would cause Linklok URL to open and display the page page.php. The GET data id and cat will be set correctly. This format only applies to .php pages though.

More efficient remote file handling

As we explained earlier if you access files on a remote server using Linklok URL (or any other similar script) then you will use bandwidth on both the remote server and the main one. This is because the file needs to be retrieved from the remote server via http or ftp and then sent out to the browser via Linklok. This is quite inefficient. There are two possible solutions to this. Firstly you could use Amazon S3 to store your large files. If this is not possible but your remote server also supports PHP then here is a solution that may help to solve this.

The following method will involve having linklokurl.php installed on both the remote and the main server. The main server will handle everything except for the actual download. To get this to work setup Linklok URL as normally but ensure you use the full file path to the files on the remote server in $LinklokLocation and add the following setting to linklokurl.php

```
$DownloadURL="http://www.remoteserver.com/linklokurl.php";
```

Upload the same linklokurl.php to both servers. This way the main server will work as normal but the links generated will point to linklokurl.php on the remote server which will access the file locally and send it to the browser.

If you have multiple remote servers then it is also possible to use this same technique. To do this setup $LinklokLocations for each remote server path as follows.

```
$LinklokLocations['location1']="/server1/folder/folder1/";
$LinklokLocations['location2']="/server2/folder/folder2/";
```

remembering to make these file paths and not URL's. The make the $DownloadUrls for each location like this

```
$DownloadURLs['location1']="http://www.server1.com/linklokurl.php";
$DownloadURLs['location2']="http://www.server2.com/linklokurl.php";
```

We normally don't require a second license for this use as long as only one Linklok URL installation is being used to generate links.

Linklok URL API

We have designed Linklok URL to be as easy to use as possible without needing to know PHP. To help more advanced users with a knowledge of PHP develop more sophisticated application with Linklok we have added some API function calls.

$link=linklokurl_api($fname,$expiry,$dialog,$ip,$iplevel);

This function can be used to return a secure link to a file. The link returned is a complete URL.

$fname The filename to create a link to. You can use the location feature here if required.

$expiry The expiry time in minutes or absolute expiry time as yyyymmddhhmm.

$dialog Set to 0 if you want to have the accessed file displayed inline in the browser such as a graphic in an html IMG tag. Set it to 1 to force the Save As dialog box to appear allowing the user to save the file.

$ip Set this to the IP address to lock the download link to. If you leave this blank then the current IP address of the user will be used.

$iplevel Set to a value from 0 to 3 depending on the number of parts of the IP that must match. 0 disables IP locking.

Example call:-

```
$link=linklokurl_api("file.zip",60,1,"",3);
```

bool=linklokemail_api($email,$files,$expiry,$ip,$iplevel,$template);

This function can be used to send secure download links to a given email address using a selected email template. The function returns true if successful or false if there was a problem.

$email Email address to send links to.

$files List of filenames to send link for separated by commas. You can use the location feature here if required.

$expiry The expiry time in minutes or absolute expiry time as yyyymmddhhmm.

$ip Set this to the IP address to lck the download link to. If you leave this blank then the current IP address of the user will be used.

$iplevel Set to a value from 0 to 3 depending on the number of parts of the IP that must match. 0 disables IP locking.

$template The email template to use. If the template has the extension .htm or .html then the email will be sent in html format. If it has the .txt format the email will be sent in text format. To use an email template you must define the location where email templates are stored in the global setting $Email. If you leave $template set to "" the built in default email template will be used. $template can also be a string buffer rather than a filename in which case you can use PHP to create email templates dynamically.

Example call:-

```
$link=linklokemail_api("you@yoursite.com","file1.zip,file2.pdf",
60,"123.68.148.2",3,"emailtemp.htm");
```

URL call to send email

You can also email links using a GET call as follows:-

http://www.yoursite.com/linklokurl.php?linklokform=1&a=password&m=0&f0=file1.zip&l0=&f1=file2.zip&l1=&x=1440&i=0.0.0.0&l=0&email=client@clientsite.com

linklokform=1	This is required as is
a	This is set to the password set in $ManualPassword
m	This must be set to 0
x	Link expiry time in minutes or absolute expiry time as yyyymmddhhmm.
email	Email address of client
f0	First filename
l0	Location of first file (if using multiple Linklok Locations)
f1	Second filename
l1	Location of second file (if using multiple Linklok Locations)

you can have up to 20 files and file locations (f0 to f19 and l0 to l19)

Optional settings

i	IP address to lock link to
l	IP locking level 0 to 3
t	If you have setup the email template folder ($Emails) then you can specify the filename of the email template to use

Of course this URL call can only be used within your own applications and must not be seen by clients as it reveals your password.

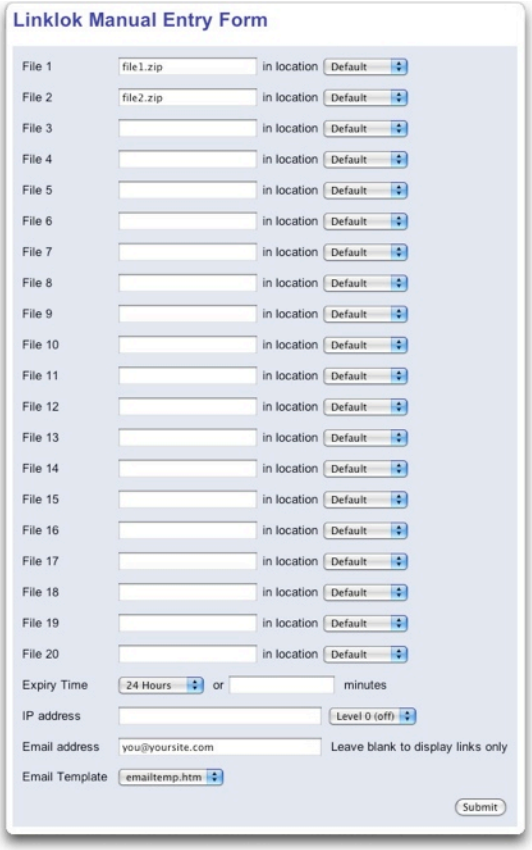
Chapter 5 Manual Form

Sending secure links manually

There maybe times when you wish to email a link manually to a user. To do this you need to enable the manual entry form feature by setting a password in $ManualPassword. To enter the form simply type the url to the linklokurl.php script and add ?manualentry=1 to the end. e.g.

http://www.yoursite.com/linklokurl.php?manualentry=1

Enter the password and you will see the following form.



Enter up to 20 filenames and set the required expiry time and email address. If you know the IP address of the recipient you can enter it and set the required IP locking level. If not then just leave the IP address field blank in which case the link will be time limited but not IP locked.

If you wish to simply create download links rather than email them directly leave the email address blank and click submit. Linklok will then display the links next to each filename. To keep the screen tidy the link are displayed as hyperlinks so you can just right click it and select 'Copy Shortcut' to copy the full link to the clipboard.

If you enable the multiple Linklok locations or multiple email template features as described in the 'Advanced Features' chapter then the manual form will display the required options (included in the screenshot above).

Chapter 6 Support

Hopefully if you have followed this manual carefully everything will be working fine. However sometimes things don't go quite so smoothly so if you have any questions or problems then please check the FAQ on the support page or email us.

Support and updates for Linklok URL are free of charge for one year after purchase. Shortly after purchase you should receive a username and password that provide you with access to the latest downloads, FAQ and other resources.

Support area: http://www.vibralogix.com/support/

Email: support@vibralogix.com