

Akeeba Release System User's Guide

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Abstract

This book covers the use of the Akeeba Release System (a.k.a. ARS) download directory for Joomla!™-powered web sites.

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Part I. User's Guide to Akeeba Release System

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Chapter 1. Introduction

1. Introducing Akeeba Release System

Akeeba Release System (or ARS for short) is a download manager component quite different than its competition. It is primarily geared towards developers who want to disseminate their software products to their clients, but can also be used as a generic downloads manager. Its key features are:

- Joomla! 1.5 and 1.6 ready.
- Chameleon skinning; the front-end automatically matches its output to your template, using module chrome.
- Sensible three-level organization of your downloads (package, version, files).
- The best out-of-the box SEF URLs, without requiring a SEF component.
- Excellent performance; before its first public beta it has already served one million downloads with a rate of 200,000 downloads per day. Smart caching will use Joomla!'s caching options to intelligently cache your public download pages, saving tons of resources on busy sites.
- Integration with AMBRA.Subscriptions and Joomla! 1.6 Access Levels for limiting access to downloads only to specific subscribers.
- Integration with JoomlaCode.org; you can directly import download items from it.
- Allows you to add files either stored on any directory under your site's root -even a different one per package!- or directly link to externally hosted files without revealing their URL to your visitors.
- Automatic determination of th file size and MD5 and SHA1 hashes of all files you add to it.
- Helps you keep it organized! You can create subdirectories, upload, replace and delete files from the component itself.
- Automatic item descriptions. Tired of typing the same descriptions over and over? Stop typing! ARS can do it for you.
- Update streams. Offer updates to your software in two formats: INI files easily usable by any and all programming languages or automatic creation of **Joomla! 1.6 XML extension update streams**. That's right! As soon as you publish a new version, all your clients using Joomla! 1.6 will be able to automatically upgrade to it. No extra file creation necessary.
- Allows for automatic updates of restricted downloads. You can authenticate automatic downloads of restricted access items by passing the username and password or a secure Download ID to the URL. This is how we allow you to do 1-click live updates of Akeeba Backup Professional and Admin Tools Professional!
- Automatic RSS and Atom feed creation.
- Automatic handling of release notes separately from your generic release description.
- All texts are edited using Joomla!'s WYSIWYG editor and support content plugins. Need to include an image gallery to your description? No problem!
- Latest releases overview for one-stop-shop presentation of your newest downloads on a single page.
- Download logging like no other. Even the referrer, IP address and country (using the free MaxMind GeoIP database) is logged. Know who downloaded when and what.

- BleedingEdge™ repositories support. Just upload files to your server by FTP and ARS will automatically create new releases, download items and publish them, while refreshing their update stream. In other words, 0-click releases.
- GPL v3 software. We value your Freedom of choice and transparency in our code.

ARS is still in beta. We keep on adding new features to it every day. Download it now and discover the future in software delivery over the web.

Important

While we provide the component free of charge, we do not provide support for free. If you're interested in receiving support for ARS please consider an AkeebaBackup.com subscription to the "SUPPORT" or "AKEEBADELUXE" levels.

Note

This product includes GeoLite data created by MaxMind, available from <http://www.maxmind.com/>.

2. Server environment requirements

In order to work, Akeeba Release System requires the following server software environment:

- Joomla!™ 1.5.17 or later in the 1.5.x range, or Joomla! 1.6.0 or later (betas and RCs are not supported).
- PHP 5.2.10 or later. Akeeba Backup will not work on PHP 4! Even though it will run on earlier PHP versions they **are not** supported because they contain grave bugs which will not allow Akeeba Release System to function properly. Akeeba Release System is also compatible with the newest PHP 5.3 releases.
- MySQL 5.0 or greater.
- Minimum 16Mb of PHP `memory_limit`. More is better.
- The hash PHP module should be enabled for trouble-free operation.
- The cURL PHP module or URL `fopen()` wrappers must be enabled for automatic determination of MD5 and SHA1 hashes of remotely stored files and importing files from JoomlaCode.org.

Chapter 2. Installation, updates and upgrades

1. Installing Akeeba Release System

Installing Akeeba Release System is no different than installing any other Joomla!™ extension on your site. You can read the complete instructions for installing Joomla!™ extensions on the official help page [<http://help.joomla.org/content/view/1476/235/>]. Throughout this chapter we assume that you are familiar with these instructions and we will not duplicate them.

1.1. Getting the installation packages

You can download the latest installation packages by visiting our site at <http://www.akeebabackup.com>. Just click on the Download, Official Releases menu item on the top menu of our site. Then click on Akeeba Release System. The releases are listed with the newest release always on top, using ARS itself to present them! Click on it to view the files. Click on the "Akeeba Release System" item to download the ZIP installation package.

Note

Do not forget to download the documentation PDF file or read it online. As we do not provide support free of charge this is your best bet in solving your problems if you do not have a SUPPORT or AKEEBAPRO subscription.

The installation package can be installed on both Joomla! 1.5 and Joomla! 1.6 sites. It can also be used to upgrade Akeeba Release System; just install it *without* uninstalling the previous release.

In any case, do not extract the ZIP files yet!

1.2. Installing the component

Log in to your site's administrator section. Click on the Extensions, Install/Uninstall (Joomla! 1.5) or Extensions, Manage (Joomla! 1.6 users) link on the top menu. In this page, locate the Browse button in the Upload Package File area. Locate the installation ZIP file you had previously downloaded and select it. Back to the page, click on the Upload File & Install button. After a short while, Joomla!™ will tell you that the component has been installed.

1.2.1. Manual installation

Sometimes Joomla!™ is unable to properly extract ZIP archives due to technical limitations on your server. In this case, you can follow a manual installation procedure.

First, you have to extract the installation ZIP file in a subdirectory named `akeeba` on your local PC. Then, upload the entire subdirectory inside your site's temporary directory. At this point, there should be a subdirectory named `akeeba` inside your site's temporary directory which contains all of the ZIP package's files.

If you are unsure where your site's temporary directory is located, you can look it up by going to the Global Configuration, click on the Server tab and take a look at the Path to Temp-folder setting. The default setting is the `tmp` directory under your site's root. Rarely, especially on automated installations using Fantastico, this might have been assigned the system-wide `/tmp` directory. In this case, please consult your host for instructions on how to upload files inside this directory, or about changing your Joomla!™ temporary directory back to the default location and making it writable.

Assuming that you are past this uploading step, click on the Extensions, Install/Uninstall (Joomla! 1.5) or Extensions, Manage (Joomla! 1.6 users) link on the top menu. In this page, locate the Install Directory edit box in the Install from Directory area. It is already filled in with the absolute path to your temporary directory, for example `/var/www/joomla/tmp`. Please append `/akeeba` to it. As per our example, it should look something like `/var/www/joomla/tmp/akeeba`. Then, click on the Install button.

If you still can't install Akeeba Release System and you are receiving messages regarding unwritable directories, inability to move files or other similar file system related error messages, please do not ask us for support. These errors stem from your site set up and can best be resolved by asking for help in the official Joomla!™ forums [<http://forum.joomla.org>].

2. Updating to the latest version

Checking for the latest version and upgrading

You can easily check for the latest published version of the ARS component by visiting <http://www.akeebabackup.com/latest>. The page lists the version and release date of the latest ARS release. You can check it against the data which appear on the bottom of your ARS Control Panel. If your release is out of date, simply click on the Download link to download the install package of the latest release to your PC.

Updating ARS to the latest version is by no means different than installing the component. You do not have to uninstall the previous version; in fact, you are discouraged from doing so. Simply follow the installation instructions so as to install the latest ARS version over the existing ARS installation. That's all! All your settings are preserved.

Live update

There is also an alternate update path, if your server supports it. It is called the "Live Update" feature. Whenever you visit the ARS Control Panel, it will automatically check for the existence of an updated version and it will notify you. You can see the notification button on the bottom of the left-hand section of the Control Panel page. Clicking on the notification allows you to perform a live update without further interaction. Do note that if your server is protected by a firewall you'll have to enable port 80 and 443 TCP traffic to www.akeebabackup.com and joomla.org for this feature to work properly.

Chapter 3. Using the back-end

The bulk of ARS is in its back-end. This is where you will be setting up your repositories, update streams, view your log files, upload files and more. Since you are going to spend most of your time looking at the back-end, we have done our best to streamline your administrative experience. Our goal is to have you spend as little time as humanly possible while publishing files. Your time is better spent creating the files, be it code, documentation, your dissertation, your weekly e-magazine or anything which can be downloaded.

1. Understanding the structure of a repository

Akeeba Release System is designed as a dual-repository, three-level system. Quite fancy wording and I'm sure you didn't understand anything. Let's break it down and understand how an ARS repository is structured.

The repository is logically separated to two sub-repositories. By default, they are named "Official Releases" and "Development Releases". Their only difference is the way items are added to them. In "Official Releases" you have to manually go to the back-end, enter an existing "category", create a new "release" and start uploading "items" to it, then publish the lot for your site visitors to see and download. In "Development Releases" you do not have to use your site's back-end. All you need to do is to use FTP to create a new directory, which automatically creates and publishes a new "release", and upload files, which automatically creates and publishes a new "item". The separation is only logical. If you wish to do so, you can display both sub-repositories as a single repository.

The repository follows the standard convention of Joomla! 1.0 and 1.5 article categorization. Each repository can have one or more "categories". Each category can have one or more "releases". Each release can have one or more "items". The "categories" are the top organization level of your data. Usually you have to create one category per software you want to publish. If you are not interested in publishing software, create one category per general file type. Think of them as article Sections.

Each category has one more "releases". Think of a release as a group of files belonging to the same chronological order. Each release is supposed to supersede the directly previous release (the one with a higher ordering number than itself).

Finally, "items" are what your visitors download. We chose to name them "items" instead of "files" because they can either be physical files stored on your server or links to a remote resource served from a different web server.

Practical example: Software distribution

This is the kind of repositories ARS excels at. Create one category per software you want to publish. Let's say you produce an application named "Kitten Finder" and a Joomla! component named "Kitten.me". Each one of them is a category in ARS. Create one release per version of the software. For instance, "Kitten Finder" has released versions 1.0.b1 (a beta release) and 1.0 stable. Each one of the versions is a release in ARS. Each downloadable file is an ARS item. For example, you may have an installer of Kitten Finder for Windows, another for Linux, a third one for Mac OS X, a PDF with instructions and so on. Each file belonging to specific version of the application is an item in ARS.

In order to allow your visitors to browse the entirety of your repository, you will have to create a menu item to the full repository.

Practical example: Community site

In this case, you will be using ARS as a generic download system, much like DOCman or PhocaDownloads. Do the following mind mapping:

- Section - ARS Category
- Category - ARS Release

- File - ARS Item

Now, let's say you want to publish your weekly newsletter in PDF format. Create an ARS category item named "Newsletter". For each new issue, create an ARS release named after the date of publication, e.g. "January 2011", "February 2011" and so on inside the "Newsletter" category. Finally, create a single ARS item per issue so that your visitors can download the PDF file of your newsletter.

In order to reduce the number of clicks required by your visitors to get to the desired download, just create a menu item to the specific Category you created. There's no need to create a link to the full repository.

Practical example: A personal site / blog

This is the most peculiar download repository setup. Usually, such users only need to publish a bunch of files and track download stats. The easy way to do that is to create an ARS category (the name is indifferent), an ARS release under it (use something descriptive of your site) and just publish items in that single release. In order to save your visitors some clicks, you can create a menu item directly to this sole release, so that nothing but your files gets listed.

2. Basic: categories, releases, items

2.1. Category management

In order to manage the categories in ARS, just click on the Categories button on the Control Panel page, or the Categories link right below the component's name in any ARS page. A standard Joomla! administrator list page appears. Do note that the search box below the Title field will filter categories based on their title or description.

You can quickly make a copy of a category by selecting its checkbox on the left-hand column and clicking the Copy button on the toolbar. The releases and items belonging to that category will not be copied along. Deleting a category by selecting it and clicking on the Delete button will remove all releases and items associated with that category. Beware! You will not be asked to confirm this choice. Deleting a category is an irreversible change. If you are not sure, unpublish instead of removing the category. You can edit a category either by clicking on its name in the list, or selecting it and clicking on the Edit button. You can add one or more new categories by clicking on the New button.

Editing or adding a category

The category editor page consists of the following fields:

Title	This is the title of the category displayed to your site's visitors
Alias	This is the alias (slug) appended to the URL pointing to that category's page. It's best to keep it short and only use lowercase unaccented Latin letters (a-z), numbers (0-9), dashes and underscores. Anything else may behave oddly.
Directory Type	You have two options. In a Normal directory you have to manually create releases and items. In a BleedingEdge directory all subdirectories created in the selected Files Directory will result into new releases being created and published without your intervention. Similarly, files uploaded in the subdirectories will be automatically turned into items and published.
Files Directory	This is the path to a directory which contains the files to be published in this category's releases. The paths are given relative to your site's root. This field is mandatory. You can not create a category without assigning it a files directory. You can use the same directory in multiple releases. You can use directories in completely different base folders on each release. If a directory doesn't already exist it will not be created, you will see an error message and your category won't be created.

Please note that ARS uses Joomla!'s API to filter directories. This limits you to using directories under your site's root. If you want to protect your files from direct web access, please create a .htaccess file with the following content inside your files directory:

```
order deny, allow
deny from all
```

Published	Should it be visible to your users? Set to off to hide the category from view.
Access	The Joomla! access level / view level to apply to the release. In Joomla! 1.5 you only have a choice between public, registered and special. In Joomla! 1.6 you can create custom view levels, effectively choosing which user groups should be granted access.
AMBRA Groups	If you have AMBRA.Subscriptions from Dioscouri Design installed, you will be presented with a list of subscription groups. Tick the boxes on the subscription groups you want to be granted access to this category.
Description	Use the WYSIWYG editor to type in a description to be displayed for this category. You can use plugins freely.

Please note that if a category is unavailable to a particular user, i.e. due to Published, Access or AMBRA Groups settings, the user will not see the category listed in the front-end and will be unable to access the category, its releases or download its items.

Clicking on the Save & New button will save the category and immediately let you create a new category.

2.2. Release management

Important

You can edit releases even if the category is unpublished, unlike DOCman.

In order to manage the releases in ARS, just click on the Releases button on the Control Panel page, or the Releases link right below the component's name in any ARS page. A standard Joomla! administrator list page appears. Do note that the search box below the Title field will filter categories based on their title or description.

You can quickly make a copy of a release by selecting its checkbox on the left-hand column and clicking the Copy button on the toolbar. The items belonging to that category will be copied along. The copied release will be unpublished by default and have an ordering of 0. Deleting a category by selecting it and clicking on the Delete button will remove all items associated with that category. Beware! You will not be asked to confirm this choice. Deleting a release is an irreversible change. If you are not sure, unpublish instead of removing the release. You can edit a release either by clicking on its name (the Version column) in the list, or selecting it and clicking on the Edit button. You can add one or more new releases by clicking on the New button. You can edit the category the release is in by clicking on the name of the category in the Category column.

Editing or adding a release

The release editor page consists of the following fields:

Category Choose the category where the release will be placed in.

Tip

If you had filtered the releases list based on a category, that category will be automatically selected in this box! Filter the list, save some time.

Version	Type in the title of this release. Since ARS is optimised for software delivery, we call this field Version, but you may type in anything you want, not just numbers.
Alias	This is the alias (slug) appended to the URL pointing to that category's page. It's best to keep it short and only use lowercase unaccented Latin letters (a-z), numbers (0-9), dashes and under-scores. Anything else may behave oddly.
Maturity	If you are using ARS for software distribution, select the maturity level of this release. The possible options are Alpha, Beta, Release Candidate and Stable.
Hits	How many times the release page has been displayed. You can use this field to alter that number. Do note that you do not need to change it on copied releases; copies will automatically receive a Hits number of zero.
Published	Should it be visible to your users? Set to off to hide the category from view.
Access	The Joomla! access level / view level to apply to the release. In Joomla! 1.5 you only have a choice between public, registered and special. In Joomla! 1.6 you can create custom view levels, effectively choosing which user groups should be granted access.
AMBRA Groups	If you have AMBRA.Subscriptions from Dioscouri Design installed, you will be presented with a list of subscription groups. Tick the boxes on the subscription groups you want to be granted access to this release.
Description	Use the WYSIWYG editor to type in a description to be displayed for this release. You can use plugins freely.

Please note that if a release is unavailable to a particular user, i.e. due to Published, Access or AMBRA Groups settings, the user will not see the release listed in the front-end and will be unable to download its items.

Clicking on the Save & New button will save the release and immediately let you create a new category.

2.3. Item management

Important

You can edit items even if the category or release they are in is unpublished, unlike DOCman.

In order to manage the items in ARS, just click on the Items button on the Control Panel page, or the Items link right below the component's name in any ARS page. A standard Joomla! administrator list page appears.

You can quickly make a copy of an item by selecting its checkbox on the left-hand column and clicking the Copy button on the toolbar. The copied item will be unpublished by default and have an ordering of 0. Deleting an item is an irreversible change. If you are not sure, unpublish instead of removing the item. You can edit an item either by clicking on its name (the Title column) in the list, or selecting it and clicking on the Edit button. You can add one or more new items by clicking on the New button. You can edit the category the item is in by clicking on the name of the category in the Category column. You can edit the release the item is in by clicking the name of the release in the Release column.

Editing or adding a release

The release editor page consists of the following fields:

Release	Choose the release where the item will be placed in.
---------	--

Tip

If you had filtered the items list using a specific release, that release will be automatically selected in this field! Filter the list, save some time.

Title	The title of the item, used to display it to your users. If you are using Automatic Descriptions you don't have to fill it in.
Alias	This is the alias (slug) appended to the URL pointing to that category's page. It's best to keep it short and only use lowercase unaccented Latin letters (a-z), numbers (0-9), dashes and underscores. Anything else may behave oddly.

Tip

Leave it blank. As soon as you select a file or type in a link, ARS will automatically fill it in before your eyes. Didn't I already mention that ARS is designed to *save you lots of time?*

Type	What kind of download is this. File items allow your visitors to download files stored on your server, the most common case of downloads. However, Link items allow you to link to a file or even a web page by its URL. You can use it to let your visitors download files hosted on external sites (e.g. your friend's site, JoomlaCode.org, SourceForge, Amazon S3, DropBox, Windows Live SkyDrive, RapidShare, MegaUpload etc) or redirect visitors to an external page. Using the Link type will not reveal the URL of the external item to your visitors until they proceed with downloading the item. Furthermore, all download links are marked as no-follow and no-index, so that search engines do not reveal the URL to the linked file/page.
File Name	If you chose the File type, this displays a drop down of files found in the category's Files Directory and all of its subdirectories. Yes, that list could be very long, so we are cheating: we only show you the files which have not been already used in other File items on any category. So, instead of having to scroll through a never ending list of files you will only see the files you haven't already used. That's what we call a clever repository! Oh, yes... As soon as you choose a file, the Alias will be filled in if and only if it was empty.
URL	If you chose the Link type, type in the full URL to the file or web page you want to link to. Oh, yes... As soon as you click anywhere outside this field, the Alias will be filled in automatically based on the contents of the URL field if and only if you had an empty alias.
File size	Type in the file size in bytes. Or don't. If you leave it empty, ARS will try to determine this automatically. In the case of Link items, it will try to download the linked file.
MD5 Signature	Type in the MD5 hash of the file. Or don't. If you leave it empty, ARS will try to determine this automatically. In the case of Link items, it will try to download the linked file.
SHA1 Signature	Type in the SHA1 hash of the file. Or don't. If you leave it empty, ARS will try to determine this automatically. In the case of Link items, it will try to download the linked file.
Hits	How many times the item has been downloaded. You can use this field to alter that number. Do note that you do not need to change it on copied items; copies will automatically receive a Hits number of zero.
Published	Should it be visible to your users? Set to off to hide the category from view.
Access	The Joomla! access level / view level to apply to the item. In Joomla! 1.5 you only have a choice between public, registered and special. In Joomla! 1.6 you can create custom view levels, effectively choosing which user groups should be granted access.

AMBRA Groups	If you have AMBRA.Subscriptions from Dioscouri Design installed, you will be presented with a list of subscription groups. Tick the boxes on the subscription groups you want to be granted access to this item.
Description	Use the WYSIWYG editor to type in a description to be displayed for this item. You can use plugins freely.

Please note that if an item is unavailable to a particular user, i.e. due to Published, Access or AMBRA Groups settings, the user will not see the item listed in the front-end page showing the release and will also be unable to download it.

Clicking on the Save & New button will save the item and immediately let you create a new category.

3. Intermediate: file management, JoomlaCode integration and logs

3.1. Uploading and managing files

ARS comes with an integrated system to handle file uploads, manage files and create sub-directories. It is accessible from ARS Control Panel page by clicking on the Upload and Manage Files button.

When you launch that feature, it asks you to select a category. Select a category from the drop-down. This step is required for ARS to know which directory it should operate on. Remember that each category is linked with one Files Directory. Upon selecting a category, the page reloads with the full interface.

Right below the category selection area you will find two panes. The left hand pane contains a list of folders. You can create a new folder by typing a name in the box and clicking on the New folder button. Do note that the Joomla! API will convert dots and spaces to underscores and turn everything to lowercase characters. You can click on any directory to go "inside" it. The right hand pane contains a list of file. The name and size of each file is displayed. Click on the trashcan icon to delete the file.

Warning

ARS will not check if the file you delete belongs to an active item. It is perfectly possible that you end up deleting a file used by an active item, causing problems to users who try to download that item.

The bottom part of the page is the upload form. It uses Joomla!'s upload feature. This means that if you have enabled the Flash uploader you will be able to upload multiple files at once to the directory. Otherwise (default Joomla! behaviour) you will only be able to upload one file at a time. Do note that all files are uploaded to the the directory you are currently viewing.

3.2. JoomlaCode.org integration

Having primarily developers of free Joomla! extensions in mind, we are providing an integration with JoomlaCode.org, the official project and file hosting facility of the Joomla! project. The idea is that if you produce free Joomla! software you most likely want JoomlaCode.org to host your downloads (free bandwidth!) and you don't really fancy having to manually copy links from JoomlaCode.org to ARS. We have semi-automated this procedure for you.

Start by clicking on the Import from JoomlaCode FRS button in ARS Control Panel page. In the new page, you will have to select an ARS release where you want to import the file links into. Select it from the drop-down.

In the JoomlaCode project tag text box enter the shorthand name of your project in JoomlaCode.org. If you are not sure, you can find that out from your JoomlaCode.org URL. Visit your project's page and you'll see a URL in your address bar similar to `http://joomla.org/gf/project/example`. That last part of the URL (i.e. `example`) is what you need to type in the JoomlaCode project tag text box in ARS. Then press the Tab key or click on Get packages.

A list of JoomlaCode packages appears below. Select the package which holds your releases in the Select package drop-down list and press the Tab key or click on Get Releases.

A list of JoomlaCode releases appears below. Select the release which holds your files in the Select release drop-down list and press the Tab key or click on Get Files.

A list of files appears below. Click on each file to create a new item linking to it in the selected ARS release. All items are unpublished by default. When you are done importing files from JoomlaCode, simply click on the Items link just below the toolbar to get back to the ARS Items page where you can publish your files.

Tip

If you are using the Automatic Descriptions feature, the name of the item, its description and all of its fields will be automatically populated. This means that all you have to do is to publish it and you're done.

3.3. Viewing the logs

ARS keeps detailed logs of all download attempts of all items. In order to view you logs, please click on the Download Logs button on the component's Control Panel page. This takes you to the log viewer page.

The top row of the list contains the filters. Below the Item column you can find three filters:

Category Select a category from the drop-down box. When you select a category, the release drop-down will also be filtered and show releases belonging to that category.

Release Select a release from the drop-down box.

The search box Type in a part of an item's title so as to filter the list by it.

Below the User column you will find a search box. Type in a part of the user's full name, username or email address to filter the list. There are also two search boxes below the Referer and IP Address columns which work in a similar fashion should you need to filter the list by the HTTP referer or IP address respectively. Finally, you have Country and Authorized drop downs.

The columns which appear in the list are:

Item Displays the item title (top row) and the category and release (bottom row) pertaining to this download record

User Displays the user full name (top row) and username and email address (bottom row) of the user who tried to download this item. Download attempts by guest (not logged in) users are displayed as a single bullet.

Accessed The date and time of the download attempt. Do note that this is the server local time, which is not necessarily the same as your timezone.

Referer The HTTP referer set by the user's download client. It only makes sense if the download was initiated by a browser. This allows you to detect hot-linked files, i.e. people linking directly to your download item from their own sites.

IP Address The IP address of the user who attempted to download the item.

Country The country of origin of the particular IP address recorded. IP to country conversion is performed using a local copy of the (free version of) MaxMind's GeoIP database. This documentation contains instructions on updating it.

Authorized If the user was allowed to download the item, it is a green check. If the user was denied the download it is marked as a white X inside a red circle. Download are denied if the category, release or item are unpublished, or if the view level / AMBRA group settings of a particular category, release or item indicate that a user should be denied access.

You can sort by any column by simply clicking on its title.

Note

This product includes GeoLite data created by MaxMind, available from <http://www.maxmind.com/>.

4. Advanced: update streams, automatic descriptions

One of the most distinctive features of ARS is that it is designed with software delivery in mind. Two of the most common problems in that arena is providing updates to your clients and having to type in the same descriptions over and over again. ARS solves both problems. It can automatically produce update streams in a generic and reusable INI format, or automatically produce Joomla! 1.6 XML update streams for use with any Joomla! 1.6 extension. Then, instead of having to manually type in the title and description of files, you can set up automatic descriptions so that ARS can type in this information for you.

4.1. Setting up update streams

ARS comes with integrated update stream provisioning. Update streams are, in short, a machine-readable representation of your repository. They can be used by remote clients to figure out if there is an update available and optionally ask the user to download it and install it. ARS can serve two types of update streams:

INI format This is a custom format, designed with portability in mind. The update information is rendered as a standard INI format text file. The downside of this format is that only the latest version is displayed in the stream.

XML format Joomla! 1.6 comes with an extension update manager. In order for it to work, it requires developers to supply update information in a custom XML format. There are actually three type of XML files Joomla! 1.6 understands. The "extensionset" document serves as the master update stream. It contains links to one or more repositories, one for each extension type Joomla! 1.6 understands, i.e. components, plugins, modules, libraries, packages, templates and files. The second form of an "extensionset" document is the master index of extensions of a specific type (called "category") known to this server, e.g. a list of components. Each item on that list points to an "updates" XML document. This third and final XML format contains the history of an extension. It tells us the version history, details about the extension, links to an information page and, most importantly, tells us where to download the extension from.

This is an overly complex system and maintaining such files manually can be a drag. ARS handles all three types of documents for you, automatically. In order to add updates support to your Joomla! 1.6 extension, all you have to do is to add the following lines just before the closing `</install>` tag in your extension's manifest XML file:

```
<updateservers>
  <server type="extension" priority="1"
    name="Whatever you want to call it">
    <![CDATA[link_to_your_update_stream_xml]]>
  </server>
</updateservers>
```

The name attribute can be anything you want. Usually it should be something like "*Name Of Extension Updates*", e.g. "Akeeba Backup Core Updates". The link in the CDATA section is the XML link provided by ARS.

In order to set up update streams, please click on the Update Streams button in ARS Control Panel.

On the very top of the page you will find a link to your master Joomla! 1.6 update stream (the first type of "extensionset" XML document). You can use that link in your Joomla! 1.6 extensions' XML files.

The grid below is a standard Joomla! administrator table. Clicking on a stream name allows you to edit it. The most important column is the Links column. It provides direct links to the publicly accessible formats of your update stream. The INI link will take you to the INI format update stream, which is necessary for Live Update to work. More information on including Live Update in your components can be found in a later section of this documentation. The XML link will take you to the Joomla! 1.6 XML "update" document for that stream. This is the XML file you should in extension manifest files, inside the CDATA section mentioned above.

Editing or adding an update stream

Editing or adding an update stream will present you with an editor page. Please note that update streams look for similarly named files (using a pattern) across all releases inside a specific category. You are called to provide this relationship in this page. The fields you have to fill in are:

Stream Name	A name for the update stream. It can be anything you want and is only used in the Joomla! 1.6 XML format streams
Alias	Used to construct the URL in the front-end. Keep it short and sweet.
Extension type	This is used by the Joomla! 1.6 XML format update stream. If you don't care about Joomla! 1.6 or it's not a Joomla! 1.6 extension, you'd better use "Files".
Category	The category where we're going to look for updates.

Note

You can have more than one update streams per category. However, a single update stream can only look inside a single category.

Package naming pattern	An update stream looks for files following a specific naming convention. You have to supply a "shell pattern" in here. This is fancy wording for saying that you provide a filename and use a single question mark (?) to match any single character or a single start (*) to match any number of characters. It's what you already use on your operating system! Only items whose File or URL field matches this pattern will be included in the update stream.
------------------------	--

For instance, all Akeeba Backup Core installation packages are named `com_akeeba-VERSION-NUMBER-core.zip`, where only `VERSIONNUMBER` changes, i.e. `com_akeeba-3.1-core.zip`, `com_akeeba-3.1.5-core.zip` etc. This leads us to a naming pattern of `com_akeeba-*-*core.zip` and that's what I would use.

Element	This is required for Joomla! 1.6 update streams. It should contain the name of your extension, e.g. <code>com_something</code> , <code>mod_something</code> , <code>plg_something</code> etc.
---------	---

For example, Akeeba Backup Core installs in the `com_akeeba` directory. This is the element name: `com_akeeba`

Published	Well, I guess you know what this means! Just note that unpublished streams result in empty pages
-----------	--

4.1.1. The INI update format

The INI update format was designed with portability in mind. It is a deliberately simple format so that it can be parsed by PHP, as well as a plethora of programming languages such as Ruby, Python, Delphi, Pascal, C/C++, C#, VB.NET, or even Visual Basic for Applications (if you consider *that* a programming language!). A typical stream looks like this:

```
; Live Update provision file
software="Foo Bar"
version="1.2.3"
link="http://www.example.com/downloads/foobar-1.2.3.zip.html"
date="2010-10-10"
```

The first line is a comment and is always there. It allow you to figure out if the rest of the file is a valid INI update stream.

The software key provide the name of the software item. The version key provides the latest version published. The link key provides a download link to the item linked to that update stream. Do note that due to Joomla!'s routing the extension of the file might always be .html! **Do not** trust the extension to tell you about the file type. When you initiate the download, ARS will set the correct MIME type in the HTTP headers. You should trust that header instead to figure out the real file type. Finally, the date key gives you the release date of the latest version in YYYY-MM-DD format.

4.2. Automatic item descriptions

Most often than not, when dealing with software distribution, you need to provide the same description and title to similarly named files. For example, if you have an installable package of your software you may want to give short installation instructions and a link to the thorough installation guide in its description. Most likely, it will also have a standard title, e.g. "com_foobar for Joomla! 1.5". Traditionally, this is dealt with by copying the release items from one release to the next. However, this is the least convenient way to do it, as you have to copy items, edit them one by one and change the file or URL they point to. That takes time. What's better is to have your download system somehow "know" the title and description of each download item. This is even more important with zero-click item publishing like what ARS does with its BleedingEdge-type repositories. So, ARS does exactly that: it knows the title and description of any file, with its Automatic Item Descriptions feature.

Launch this feature by using the Automatic Item Descriptions button in ARS Control Panel. You are presented with a standard Joomla! administration table. Editing an item presents you with an editor form, containing the following fields:

Category	The category where this automatic item description will be applied to
Package name pattern	The file naming pattern of the files which will be handled by this automatic description. For example, if you type in <code>com_foobar-* .zip</code> all items whose File or URL field matches this pattern (e.g. <code>com_foobar-1.0.zip</code> , <code>com_foobar-extras-1.0.zip</code>) will be assigned the Title and Description provided below if these fields are not provided when you create them.
Title	The title to be applied to download items matching this automatic description's pattern rule.
Published	If you want to temporarily disable an automatic description, set Published to No.
Description	The description to be applied to download items matching this automatic description's pattern rule.

You can use Save & New to mass-create many Automatic Item Description records one after the other.

Chapter 4. Creating front-end items

A repository system is worth nothing if it can't be accessed from your site's visitors. ARS comes with ten different public layouts so that you can always present it the way you want. On top of that it uses Chameleon skinning. This is a technique originally developed by Stian Didriksen and used in the NinjaBoard forum component. Instead of providing you a huge CSS file you have to customize to make the component look good, Chameleon skinning uses module chrome to render its output. In other words, pieces of the pages generated by ARS look like Joomla! modules. Leveraging this technique allows you to quickly "skin" ARS to look beautiful on your site in less than 5 minutes, without writing a single line of CSS.

1. Creating repository views

When creating a new menu item, select the Akeeba Release System menu type. In the expanded layout tree you can select one of the following options:

- | | |
|-----------------------|---|
| BleedingEdge releases | It only shows the BleedingEdge categories, most commonly used to serve developer releases / nightly builds. |
| Normal releases | It only shows the categories of the "Normal" type. |
| Entire repository | Shows both kinds of categories. |

You have the following Parameters (Basic):

- | | |
|---------------------|--|
| Categories grouping | Set to Normal first in order to show categories of the Normal type on top. Set to None to show all categories based on the ordering you specify below. |
| Category ordering | Choose the ordering you'd like to apply to the categories listing |
| Releases ordering | When a user clicks on a category, it defines the ordering to be applied to the release of that category |
| Items ordering | When a user clicks on a release, it defines the ordering to be applied to the items of that release |

In the Parameters Advanced you have the following options:

- | | |
|--------------------|--|
| Show pagination | Should we show the pagination (links to the individual pages) on the bottom of the page? |
| Pagination results | Should we show the pagination results (page X of Y) on the bottom of the page? |
| Show a feed link | If enabled, the page will include links to the RSS and Atom feeds. This is useful to provide push updates to your clients. |

Tip

If you want to let people know whenever you release new software by email, you can use Feedburner. First, copy the RSS feed URL and then disable the feed links. Go to FeedBurner, burn a new feed with that RSS feed and choose to enable email subscriptions to the feed. Provide a link to the subscription page or a subscription form in a module on the repository page for your visitors to subscribe. Super easy and very efficient!

2. Creating a "Latest Releases" view

The "Latest Releases" view is a single page overview showing all the categories, their latest releases and the download items on each one of them. You can view a live (and working!) demo on <https://www.akeebabackup.com/latest>. When

creating a new menu item, select the Akeeba Release System menu type. In the expanded layout tree select Latest Releases.

You have the following Parameters (Basic):

- Category ordering Choose the ordering you'd like to apply to the categories listing
- Releases ordering When a user clicks on a category, it defines the ordering to be applied to the release of that category
- Items ordering When a user clicks on a release, it defines the ordering to be applied to the items of that release

In the Parameters Advanced you have the following options:

- Show pagination Should we show the pagination (links to the individual pages) on the bottom of the page?
- Pagination results Should we show the pagination results (page X of Y) on the bottom of the page?
- Show a feed link If enabled, the page will include links to the RSS and Atom feeds. This is useful to provide push updates to your clients.

Tip

If you want to let people know whenever you release new software by email, you can use Feedburner. First, copy the RSS feed URL and then disable the feed links. Go to FeedBurner, burn a new feed with that RSS feed and choose to enable email subscriptions to the feed. Provide a link to the subscription page or a subscription form in a module on the repository page for your visitors to subscribe. Super easy and very efficient!

3. Creating category views

When creating a new menu item, select the Akeeba Release System menu type. In the expanded layout tree you can select Category View.

You have the following Parameters (Basic):

- Select category Choose the category you'd like to list
- Releases ordering It defines the ordering to be applied to the release of that category
- Items ordering When a user clicks on a release, it defines the ordering to be applied to the items of that release

In the Parameters Advanced you have the following options:

- Show pagination Should we show the pagination (links to the individual pages) on the bottom of the page?
- Pagination results Should we show the pagination results (page X of Y) on the bottom of the page?
- Show a feed link If enabled, the page will include links to the RSS and Atom feeds. This is useful to provide push updates to your clients.

Tip

If you want to let people know whenever you release new versions of your software by email, you can use Feedburner. First, copy the RSS feed URL and then disable the feed links. Go to FeedBurner, burn a new feed with that RSS feed and choose to enable email

subscriptions to the feed. Provide a link to the subscription page or a subscription form in a module on the repository page for your visitors to subscribe. Super easy and very efficient!

4. Creating release views

When creating a new menu item, select the Akeeba Release System menu type. In the expanded layout tree you can select Release View.

You have the following Parameters (Basic):

- Select release Choose the release you'd like to list
- Items ordering It defines the ordering to be applied to the items of that release

In the Parameters Advanced you have the following options:

- Show pagination Should we show the pagination (links to the individual pages) on the bottom of the page?
- Pagination results Should we show the pagination results (page X of Y) on the bottom of the page?
- Show a feed link If enabled, the page will include links to the RSS and Atom feeds. This is useful to provide push updates to your clients.

5. Making it look beautiful

ARS is using a Chameleon skinning engine. This term was coined by Stian Didriksen to name the technique he is using in the NinjaBoard forum component. In short, Chameleon skinning uses your template's module chrome to theme your pages. Instead of providing a truckload of CSS classes and a long CSS file you need to override to make the component fit your site's template, the individual parts of the page, e.g. category items in the repository view, are rendered as Joomla! modules. Spending 5 minutes to fine-tune the module rendering parameters allows you to easily and optimally integrate the visual presentation of ARS to match your template. The component intelligently "changes" its "colors" to match its surroundings, much like a chameleon.

In order to configure the Chameleon skinning engine, go to the component's Control Panel page and click on the Parameters (Joomla! 1.5) or Options (Joomla! 1.6) button in the toolbar. You can see the following options for the Category boxes:

- Category module style There is a drop-down box listing all the module "chrome" (rendering types) for modules installed on your Joomla! site. Make sure you select one under the "system" group (these are basic styles always available to all templates) or one of the items under your specific template's group.
- Category Modulestyle Sfx This is the class suffix to append to the module. Many template providers supply different module styles using one or more "suffixes". Type in the list of suffixes you want in this box.

Tip

You may need to leave a leading space before typing suffixes, depending on your template. If, after typing in the suffix(es), you see no visual change please leave a leading space. Multiple suffixes are separated by spaces.

There are also equivalent options for the Releases and Items boxes.

There is also one item called Bleeding Edge Suffix. These suffixes will be applied to category boxes for categories of the BleedingEdge type. In other words, a category box for a BleedingEdge-type category will have both the Category

Modulestyle Sfx and Bleeding Edge Suffix contents appended to its CSS class name. This allows you to style Bleeding Edge categories differently than normal categories should you choose to do so.

The last item is called the Link template and defines how links to categories, releases and items will be rendered. By default it is `%s` which is the generic way to render a "read on" link in Joomla!. Different templates use a slightly different HTML syntax for the "read on" links. You can type in the HTML you want. The first %s occurrence will be replaced with the URL of the link, whereas the second %s occurrence will be replaced with the item's title.

Warning

Joomla! 1.6 doesn't allow you to use HTML in this field. The only workaround is to substitute the lower-than and greater-than characters with square brackets. So, in Joomla! 1.6, the default link template should be written as `[a href="%s" class="readon"]%s[/a]`. ARS will intelligently figure out what you meant and convert it back to valid HTML.

If your template doesn't have adequate module styles, ARS will look like crap. However, there is an easy workaround! Just select the "rounded" style on all module styles and use unique suffixes for each kind of module type, e.g. "ars-category" for the category module suffix, "ars-release" for the category release module suffix and so on. This allows you to use standard CSS in your template to skin ARS to your liking, effectively working around the limitations of the Chameleon engine on templates lacking good support for module styles.

AkeebaBackup.com strongly recommends using templates from respected template clubs producing feature-rich templates, such as RocketTheme, if you want optimal presentation results with minimal fuss.

Chapter 5. Advanced uses

ARS was designed with advanced users, professional site builders and, most importantly, developers in mind. We offer some features never seen before in a download repository, like 0-click publishing, country logging and an easy way to provide 1-click updates to your own extensions!

1. One-click Live Updates for your components

As part of our Open Source spirit, we are thrilled to announce the availability of Akeeba Live Update (ALU). It is a library licensed under the GNU Lesser General Public License (LGPL) version 3 or, at your own option, any later version. It allows you to enable one-click updates of your components by adding just 20 lines of boilerplate PHP code.

Note

Akeeba Live Update does not require using Akeeba Release System and does not require any third party software to be installed on your user's site. It integrates with your own component, it is distributed with your own component and is just a bunch of files placed in a directory of your own component. It has zero dependencies and works perfectly under Joomla! 1.5 and Joomla! 1.6.

Including ALU in your component

The first thing you need to include in your extension is the ALU library itself. After installing Akeeba Release System, go to your site's `administrator/components/com_ars` directory and copy the `liveupdate` directory to your extension's back-end directory. It's important not to name this directory differently. For example, if you have a component named `com_foobar` then the library must be installed in `administrator/components/com_foobar/liveupdate`.

Configuring ALU

ALU needs to know which extension it updates, where to look for updates and where to cache its information. You can do that by editing the `administrator/components/com_foobar/liveupdate/config.php` file. The variables you have to supply are the following:

<code>\$_extension-Name</code>	The folder name of your extension. In our example, that's <code>com_foobar</code> . ALU uses this information to automatically locate your extension's XML manifest file so that it can read the version number and release date of the installed copy of your extension to your user's site.		
<code>\$_extensionTitle</code>	The human-readable name of your extension, as presented in the Live Update GUI		
<code>\$_updateURL</code>	The URL to the update stream. Right now, only INI update streams are supported. You can either use ARS on your site to automatically provide the INI file (copy the INI link's target from the Update Streams view), or manually create an INI file with a text editor, place it somewhere publicly accessible and type in that URL in here.		
<code>\$_requiresAuthorization</code>	If you are using ARS to serve the downloads to your extension and you are limiting downloads only to registered users, set this to true to let ALU know that it needs to provide a username/password or a download ID to the updates server before downloading the update file.		
<code>\$_versionStrategy</code>	This lets ALU know how to determine if the component is up-to-date or out-of-date. The following options are available: <table><tr><td><code>different</code></td><td>If the version reported by the update server is different then the currently installed one, ALU decides that an update is available. Default and enough for most uses.</td></tr></table>	<code>different</code>	If the version reported by the update server is different then the currently installed one, ALU decides that an update is available. Default and enough for most uses.
<code>different</code>	If the version reported by the update server is different then the currently installed one, ALU decides that an update is available. Default and enough for most uses.		

newest	The release date reported by the update server and the one reported by the component are compared. If the update server's release date is newer, ALU decides there is an update available.
vcompare	The version number reported by the update server and the one in the current extension are compared using PHP's <code>version_compare()</code> in order to determine which is newer.
\$_storageAdapter	It can either be <code>file</code> or <code>component</code> . The File adapter will try to cache the update information in a file named something like <code>com_foobar.update.ini</code> . The Component adapter will try to store the (serialized) update information in a component parameter, by default called <code>liveupdate</code> . If you do not provide this option, the File adapter will be used.
\$_storageConfig	This is an array containing the configuration options of the storage adapter. It is optional. For the File adapter the following options are available: <code>path</code> Where to store the update cache file. By default, that's <code>JPATH_CACHE</code> , i.e. the <code>administrator/cache</code> directory. An example of setting the configuration is this: <pre>var \$_storageConfig = array('path' => JPATH_CACHE);</pre> For the Component adapter you have the following options: <code>component</code> The component whose parameters will be used for saving the update information. If it's not supplied, the currently running component is assumed. <code>key</code> The component parameter used for saving the update information. It has to be a hidden parameter whose name is the same as the contents of this configuration parameter. If it is not supplied, <code>liveupdate</code> is assumed.

An example of setting the configuration is this:

```
var $_storageConfig = array('component' => 'com_foobar', 'key' => 'liveupdate');
```

Letting ALU handle the `view=liveupdate` requests

ALU is designed to be able to handle requests to your component's `view=liveupdate` URLs. In order to do that, you have to open the main entry point file of your component and append four lines of boilerplate PHP code. For instance, if your component is named `com_foobar`, open `administrator/components/com_foobar/foobar.php` and paste the following lines right after the `defined('_JEXEC') or die();` statement.

```
require_once JPATH_COMPONENT_ADMINISTRATOR.DS.'liveupdate'.DS.'liveupdate.php';
if(JRequest::getCmd('view','') == 'liveupdate') {
    LiveUpdate::handleRequest();
    return;
}
```

These lines do the following:

1. They load the ALU library.
2. They check if the name of the view is `liveupdate`. You can use a different view name by editing the right hand side of the conditional check.

3. If the view matches, they hand off the execution to ALU. Do not forget the return statement! If you do, your component's controller will fire after ALU's integrated controller, wrecking havoc.

Using ALU to create an update status Control Panel icon

ALU has a shorthand function to create an icon div, useful for displaying the update status of your extension in your extension's Control Panel page. All you have to do is paste the following line in your layout file:

```
<?php echo LiveUpdate::getIcon(); ?>
```

How ALU updates work

The first step is to get your user to visit ALU's main page. If you followed the instructions above to the letter, this is done by redirecting your user to `view=liveupdate` of your component, e.g. `index.php?option=com_foobar&view=liveupdate`.

Live Update will then try to fetch the update information. It will first check its cache. If there are no cached data or if they are older than 6 hours, it will re-fetch the information from your server. If an update is found, it will notify the user. It will also notify the user if Live Update is not supported on his server (lack of `cURL` / `URL fopen()` wrappers or firewall disallowing connections to your update server) or if ALU determined that the last time it tried to fetch updates it crashed.

If the user chooses to install a new version, the following will happen:

1. ALU checks if the Joomla! FTP Layer is enabled but no username/password is supplied. In that case, it will ask your user to supply the FTP username and password.
2. The update package is fetched from your server and saved to your user's temporary directory. ALU will first try using `cURL`. If that fails, it will try using `URL fopen()` wrappers. If writing directly to the file is not possible, ALU will load the package in memory and use `JFile::write()` to write it to disk. If all else fails, your user will see an error messaging prompting him to enable Joomla!'s FTP layer.
3. The downloaded update package is extracted using Joomla!'s API. If that fails, your user is notified and the process stops. A failed extraction usually means that either your package is broken or your user's server doesn't allow downloading files correctly.
4. The extracted package is installed using Joomla!'s API, but without calling the `com_installer` component itself. Any post-installation tasks will run normally, so don't worry if you want to run `AJAX` calls as soon as your extension is installed.

Without loading a different page, a hidden `IFRAME` will take care of cleaning up, i.e. remove the update package and its extracted files, just like `com_installer` would do.

Since ALU performs these four steps in separate page loads it is much more resilient to server timeouts than Joomla!'s `com_installer`. More specifically, `com_installer` tries to run all four steps within the same page load. If your client is using Joomla!'s FTP layer this takes forever and causes a White Screen Of Death due to timeout or memory errors. ALU separates and isolates those steps, avoiding such issues even with extremely large installation packages (in the range of 2-4Mb!). Moreover, it provides intelligent error messages where it can instead of the cryptic `com_installer` messages, where "Package not found" may mean "I could not download the file"...

Allowing your user to upgrade extensions with restricted downloads

Some developers want to provide downloads that are not openly accessible to the public. For instance, downloading a file may require registering for a free account and logging in before it is available. Developers distributing their

software for a fee have a similar condition to face: they need only their subscribers to be able to download their software. The common ground in all of those cases is that you actually need to log in the user before downloading the file.

ALU, when consuming the update feed of an ARS installation, can cater for that. How? If you set the `$_requiresAuthorization` to true, ALU knows that your site requires authorization before downloading a backup archive. In order to achieve that, it will append a username/password pair or a unique per user Download ID to the download URL. Akeeba Release System on your site sees that information and tries to authenticate the user. If the authentication succeeds, it will continue with the download.

The remaining question is how ALU knows what the username/password pair or the download ID is. The answer is simple. All you have to do is to create component parameters in your component's config.xml file. If you want to use username/password pairs, add the following lines after your `<params>` tag:

```
<param name="username" type="text" default="" size="30"
label="Username"
description="Enter the username to our site in order to enable Live Updates" />
<param name="password" type="text" default="" size="30"
label="Password"
description="Enter the password to our site in order to enable Live Updates" />
```

If you have a Joomla! 1.6 component replace `<param>` with `<field>`. Similarly, in order to use a Download ID use this:

```
<param name="downloadid" type="text" default="" size="30"
label="Download ID"
description="Enter your Download ID to enable Live Updates" />
```

Alternatively, you can override the `LiveUpdateConfig` class' constructor and populate the `$_username`/`$_password` or `$_downloadID` parameters during the class initialization.

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2. How the BleedingEdge categories work

BleedingEdge (BE) categories are quite different than the Normal-type categories. You don't have to visit your site's back-end to publish and unpublish releases and items. It all happens automatically whenever you upload or delete files on your server. Here is the breakdown of how that works.

As all ARS categories, BleedingEdge categories are linked with a Files Directory. Unlike Normal-type categories, BE categories continuously monitor that directory for changes. Whenever you create a new subdirectory, a new ARS Release is created. The Version of the ARS Release is the directory's name and its Maturity is always set to "Alpha". Here is the coolness factor for software releases: If you upload a plain text file named CHANGELOG (yes, all caps

and no extension), ARS will read it, compare it with the previous releases's CHANGELOG, colorize the result and use that as the ARS Release's description. The colorizer follows the Joomla! standard on marking changes in the CHANGELOG:

- Lines starting with # (hash) indicate bug fixes
- Lines starting with + (plus) indicate added features
- Lines starting with - (dash) indicate removed features
- Lines starting with ~ (tilde) indicate miscellaneous changes
- All other lines are comments and/or notes

If you're not interested in colorizing, changelogs and stuff like that, just keep in mind that if you upload a plain text file named CHANGELOG it will be used as your ARS Release's description.

Finally, for each file you upload an item be created and published. If you have set up Automatic Item Descriptions for the category they will, of course, be used for naming the file. ARS Releases and ARS Items created this way will inherit the access (view) level and AMBRA Group settings of the BE category.

Let's sum it up, OK?

- Creating directories creates releases
- A text file named CHANGELOG will be used to produce your release's description
- Uploading files creates items
- Access (view) levels and AMBRA Group settings are inherited from the category to the release, to the items
- Deleting a directory unpublishes the release
- Deleting a file unpublishes the item
- You don't need to login to your back-end to manage the releases and items, but if you want to, you can.

3. Updating the MaxMind GeoIP database

Note

This product includes GeoLite data created by MaxMind, available from <http://www.maxmind.com/>.

Akeeba Release System uses the free MaxMind's GeoLite Country database for determining the country of origin of users downloading your items. More specifically, it uses the GeoLite Country database file. This file is updated very frequently, about once every month. You can download its latest version directly from MaxMind's website [<http://geolite.maxmind.com/download/geoip/database/GeoLiteCountry/GeoIP.dat.gz>]. Why do that? IP assignments to countries change all the time. By the time we release our software, the database file is most likely already stale. This could cause some IP addresses to be identified as coming from the wrong country. Updating the file regularly will give you much better accuracy in the country statistics. Do note that MaxMind claims an accuracy of 99.5% for its free GeoLite Country database. This means that some IP addresses may still be reported as belonging to the wrong country. Furthermore, IPv6 is not supported yet.

Tip

If you are a subscriber to MaxMind's more accurate (99.8% advertised accuracy), for-a-fee GeoIP Country database you can use that database instead of the free GeoLite database included in the component, using the same procedure.

The file you download is a compressed file, named `GeoIP.dat.gz`. You have to uncompress it first, using `gunzip` (Linux), or your favourite archive file application such as 7-Zip, WinZIP, PKZIP for Windows, BetterZIP, etc. This will result to an uncompressed file named `GeoIP.dat`. Upload that file to the `administrator/components/com_ars/assets/geoip` directory of your site.

Important

If you are on Linux hosting (most likely you are) lower and upper case letters do matter! The file must be named exactly `GeoIP.dat`. Other names, such as `Geoip.dat`, `GEOIP.DAT` or `geoip.dat` will not work.

Do note that download log records prior to installing the new version of the database will not be affected. Only download attempts logged after uploading the new database version will be affected by the new database version.

Part II. Appendices

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Appendix A. GNU Free Documentation License

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