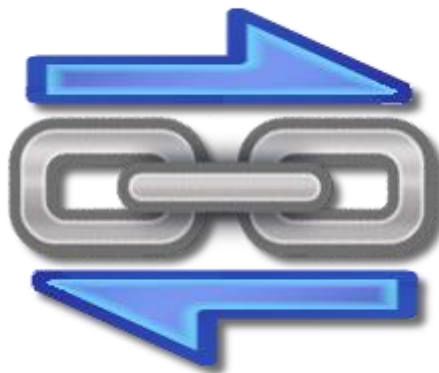


Linkback Extension



*Pingback & TrackBack
Clients and Servers
for the Yii PHP Framework*

*Developed for the Yii Community by
PBM Web Development*





Linkback Extension

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Linkback Extension

Introduction

Linkbacks (Pingbacks and TrackBacks) are a method by which authors can obtain notification when other authors link to one of their documents, enabling them to track who is linking to them, and to provide reciprocal links to the referring document.

The Linkback Extension provides a simple means for blogs to support both Pingbacks and TrackBacks. It implements Pingback and TrackBack clients and servers, and inserts Pingback and TrackBack auto-discovery code into blog posts.

Features

- [Pingback 1.0](#) compliant client and server
- [TrackBack 1.2](#) compliant client and server
- Automatic server auto-discovery code generation
- Blog system integration
- Simple installation and configuration

Definitions

The terms Linkback, Pingback, and TrackBack are often used colloquially and interchangeably. In this document the following definitions are used:

Term	Definition
Linkback	Pingback and/or TrackBack (see http://en.wikipedia.org/wiki/Linkback)
Pingback	As defined at http://www.hixie.ch/specs/pingback/pingback
TrackBack	As defined at http://www.sixapart.com/pronet/docs/trackback_spec
Auto-discovery	Code in the target document that provides the server's URL to the client.
Ping	Notification by a Linkback client to a Linkback server.

Linkback Overview

While the underlying mechanisms for Pingbacks and TrackBacks differ (Pingbacks use an XML-RPC call (client) and function (server), TrackBacks use a REST model), they both provide the same service, i.e. notification to a document's author about a link by another author to the document, and the process for both is similar.

In the description below, Alice's system is the client, Bob's the server.

1. Alice writes a post on her blog that contains a link to a post on Bob's blog. The permalink to Alice's post is `http://alice.example.com/posts/all-about-linkbacks`; the permalink of Bob's post is `http://bob.example.net/linkbacks`.
2. Alice's blogging system parses the post and extracts all the external links. For each external link, Alice's blogging system does the following:



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3. Requests the page referred to by the link. Typically the amount of the page is limited to a few kilobytes.
4. Looks for Linkback auto-discovery code in the page. If no auto-discovery code is found Alice's system goes to step 3 using the next link it found in step 2.
5. Extracts the Linkback server URL from the auto-discovery code and pings it; the ping containing information about Alice's post.
6. Bob's system receives the ping sent by Alice's system.
7. Bob's system confirms that `http://bob.example.net/linkbacks` is a post on his blog.
8. Bob's system then requests the content of Alice's post, `http://alice.example.com/posts/all-about-linkbacks`, to:
 - a. confirm it exists,
 - b. is text,
 - c. contains a link to `http://bob.example.net/linkbacks`.
9. It then extracts any other information about Alice's post that is contained in the ping, stores this in its database, and sends a status response.
10. If the response is success, Alice's system records the Linkback to prevent re-generation of the request.

Alice's system repeats steps 3, 4, 5, and 10 for each external link found in step 2.

When a visitor requests Bob's post it uses the information stored to mention the Linkback.

Ping Information

One significant difference between Pingbacks and TrackBacks is the information contained in the ping.

Pingback

A Pingback ping contains the source document URL and the target document URL; both are required.

TrackBack

A TrackBack ping contains:

- the source document URL (*required*)
- an excerpt from the source document (*optional*)
- the name of the source blog (*optional*)
- the title of the source document (*optional*)

A reference to the target document is contained in the TrackBack server URL; the format of the TrackBack server URL is implementation specific (see [LinkbackAutodiscovery](#) for a description of the Linkback extension implementation).



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License

The Linkback Extension is free software. It is released under the terms of the following BSD License.

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Compatibility

	Yii
Tested with	1.1.7
Should work with	1.1.7 and above

Installation

1. Download the Linkback Extension from <http://www.yiiframework.com/extension/linkback/>
2. Extract the files and place them under the required directory; typically this will be in the extensions directory of the application's blog module.



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Configuration

The Linkback Extension consists of two parts: a Linkback server that accepts Linkback pings from remote clients, and a Linkback client that generates Linkback pings to remote servers.

Linkback Server

The Linkback server consists of two parts, each separately configured:

- [LinkbackAutoDiscovery](#) – generates Pingback and TrackBack server auto-discovery code
- [LinkbackController](#) – implements the Pingback and TrackBack servers

LinkbackAutoDiscovery

[LinkbackAutoDiscovery](#) generates the local Linkback server auto-discovery code and inserts it into posts. It is added as a filter to the controller action that displays posts.

```
public filters() {
    return array(
        //Other filter definitions
        array(
            'path.to.linkback.LinkbackAutoDiscovery +view',
            'url'=>array(
                'model'=>'post',
                'params'=>array(
                    'blog'=>'.blog.slug',
                    'post'=>'.slug'
                )
            )
        ),
        //Other filter definitions
    );
}
```

Figure 1 - Example LinkbackAutoDiscover Configuration

The configuration above adds the LinkbackAutoDiscover filter to the 'view' action, the model is contained in the controller property 'post', and has URL GET parameters 'blog', which takes the value of the 'slug' attribute in the model's related model 'blog', and 'post' which takes the 'slug' attribute of the model.



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LinkbackController

[LinkbackController](#) implements the Pingback and TrackBack servers. It is configured using the [CWebApplication::controllerMap](#) property in the application's configuration file (Yii's default configuration file is */protected/config/main.php*):

```
return array(
    // Other CWebApplication configuration
    'controllerMap'=>array(
        'linkback'=>array(
            'class'=>'path.to.LinkbackController',
            'linkback'=>'path.to.linkback.model',
            'params'=>array(
                'urlParam'=>'postModelAttribute'
            ),
            'post'=>'path.to.post.model',
            'rules'=>array(
                'pattern'=>'route'
            ),
            // Other LinkbackController Configuration
            // See LinkbackController::Public Properties
        ),
    ),
    // Other CWebApplication configuration
);
```

Figure 2 - Example LinkbackController Configuration

Linkback Client

LinkbackClientBehavior

[LinkbackClientBehavior](#) implements the Pingback and TrackBack clients. It is attached to the posts controller using the [CController::behaviours\(\)](#) method; the [LinkbackClientBehavior::linkback\(\)](#) method is called from the action that displays a post.

Note: The post **MUST** be publicly visible, i.e. the post must be approved, published, etc., because the Linkback server may access it to prevent Linkback spamming by ensuring that a) the source URL exists, and b) that the document at the URL (the post) contains the target URL.



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```
public function behaviours() {  
    return array(  
        // Other behavior declarations  
        'linkbackClient'=>array(  
            'class'=>'path.to.LinkbackClientBehavior',  
            // LinkbackClientBehavior properties  
        ),  
        // Other behavior declarations  
    );  
}
```

Figure 3 - Example LinkbackClientBehavior Configuration

```
public function actionView() {  
    $post = $this->getPost();  
    if ($post->isVisible) {  
        $this->linkback($post, $this->createAbsoluteUrl('', array(GET  
params)));  
        $this->render('view', compact('post'));  
    }  
}
```

Figure 4 - Example LinkbackClientBehavior::linkback() Method Call



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Linkback Server

The Linkback sever consist of two parts; [LinkbackAutoDiscovery](#) that add server auto-discovery code to the <head/> element of posts, and [LinkbackController](#) that processes Linkback pings from clients.

Two Linkback servers are implemented; a Pingback server and a TrackBack server. The Pingback server is compliant with the Pingback 1.0 specification

(<http://www.hixie.ch/specs/pingback/pingback#compliant>) and the TrackBack with the TrackBack 1.2 specification (http://www.sixapart.com/pronet/docs/trackback_spec).

LinkbackAutoDiscovery

Inheritance

LinkbackAutoDiscovery » [COutputProcessor](#) » [CFilterWidget](#) » [CWidget](#) » [CBaseController](#) » [CComponent](#)

LinkbackAutoDiscovery adds Pingback and/or TrackBack server auto-discovery code to the <head/> element of posts.

Pingback server auto-discovery code consists of both an X-pingback HTTP header and a <link> element (<http://www.hixie.ch/specs/pingback/pingback#TOC2>).

TrackBack server auto-discovery code is RDF enclosed in HTML comments in order that the page validates (some validators choke on RDF embedded in XHTML) (http://www.sixapart.com/pronet/docs/trackback_spec). The trackback.ping property is set to the URL of the TrackBack server with the relative URL of the post with respect to the root appended. For example: if the URL to a post is <http://example.com/posts/example-post>, and the default TrackBack server route is used, the trackback.ping property will be <http://example.com/linkback/trackback/posts/example-post>.

Note: If a TrackBack server is being implemented, the owner component – the controller – must have a publicly accessible property that contains the post model.

Public Properties

See [COutputProcessor](#) for inherited properties.

Name	Type	Description
model	string	The name of the owner property that contains the post model.
servers	array	Routes to the local Linkback servers.
titleAttribute	string	The model attribute that contains the document title.
url	array	URL to the document in the format of key=>value pairs where the keys are the parameter names of CController::createAbsoluteUrl() - route, params, schema, and ampersand - and the values are the parameter values.



Linkback Extension

Public methods

See [COutputProcessor](#) for inherited methods.

Name	Description
init()	Initialises the widget.
processOutput()	Processes the captured output.

Protected methods

Name	Description
addAutoDiscovery()	Adds auto-discovery code for the defined servers.

Property Details

model

```
public string $model;
```

The name of the owner property that contains the model.

This property is only used in TrackBack auto-discovery code generation and then only if [url](#)['params'] references the model or [titleAttribute](#) is set.

Defaults to 'post'

servers

```
public array $servers;
```

Routes to the local Linkback servers.

The array keys are the server types to generate auto-discovery code for; valid keys are LinkbackAutoDiscovery::PINGBACK and LinkbackAutoDiscovery::TRACKBACK.

Array values are URL routes to the servers in the format of ControllerID/ActionID. See [CController::createAbsoluteUrl\(\)](#).

Defaults to array(self::PINGBACK=>'/linkback/pingback',self::TRACKBACK=>'/linkback/trackback')

titleAttribute

```
public string $titleAttribute;
```

The model attribute that contains the document title.

This property is only used in TrackBack auto-discovery code generation and is optional.

Defaults to 'title'

url

```
public array $url;
```

URL to the document in the format of key=>value pairs where the keys are the parameter names of [CController::createAbsoluteUrl\(\)](#) - route, params, schema, and ampersand, and the values are the parameter values; omit keys that take the default values.



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The `params` value is an array of GET parameters in `name=>value` pairs. If the value of a GET parameter starts with a dot (.) it is an attribute path relative to the model that is resolved at run time; for example `array('post'=>'.id')` will use the `id` attribute of the model for the `post` parameter.

This property is only used in TrackBack auto-discovery code generation.

Defaults to `array()`;

Method Details

addAutoDiscovery()

```
public string addAutoDiscovery(string $content);
```

\$content	string	The content to which auto-discovery code is added
{return}	string	The content with auto-discovery code added

Adds auto-discovery code for the defined servers. The auto-discovery code is placed at the end of the `<head/>` element.

If the Pingback server is specified the X-Pingback HTTP header and the pingback link element are added.

If the TrackBack server is specified, TrackBack RDF enclosed in HTML comments is added.

init()

```
public void init();
```

Initialises the widget.

processOutput()

```
public void processOutput();
```

Processes the captured output.

Adds Linkback server auto-discovery code to the output.



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LinkbackController

Inheritance

LinkbackController » [CExtController](#) » [CController](#) » [CBaseController](#) » [CComponent](#)

LinkbackController implements the Pingback and TrackBack servers; these accept Linkback pings from clients and store the Linkback information for successful pings in a user defined model.

The Pingback server is compliant with the Pingback 1.0 specification (<http://www.hixie.ch/specs/pingback/pingback#compliant>).

The TrackBack server is compliant with the TrackBack 1.2 specification (http://www.sixapart.com/pronet/docs/trackback_spec).

A client sends a ping to either the Pingback or TrackBack server (it should not ping both). The pinged server checks that the target URL (which points to the document being linked to by the source document) in the ping exists, that the source URL (which points to the source document that generated the ping) exists and contains the target URL, and that a Linkback between the two documents does not currently exist.

The target URL is parsed in order to check that it points to a valid document; the \$params and \$rules parameters tell LinkbackController how to do this:

- \$rules is an array of URL parsing rules; these are exactly the same as CUrlManager rules; in fact these rules will be the same as those relevant to post URLs in the application configuration.
- \$params maps the GET parameters in the URL to attributes of the post model or related models.

For example: If the target URL of a post is `http://example.com/posts/post-title`, \$rules will be something like `array('posts/<pslug:([a-z]+((-[_]\w)+)*)*>'=>'posts/view')`, which routes the URL to the 'view' action of the 'posts' controller, and puts 'post-title' into `$_GET['pslug']`.

In order that LinkbackController can check the target post exists, the GET parameters must be mapped to post model attributes; so taking the same example \$params would look something like `array('pslug'=>'slug')`, which tells LinkbackController that `$_GET['pslug']` maps to the 'slug' attribute of the model defined in \$post.

A more complex example is where there is more than one blog; here the URL of a post might be `http://example.com/blogs/blog-title/post-title`. \$rules will be something like `array('blogs/<bslug:([a-z]+((-[_]\w)+)*)*>/<pslug:([a-z]+((-[_]\w)+)*)*>'=>'blogs/posts/view')` which routes the URL to the 'view' action of the 'posts' controller in the 'blogs' module, and puts 'blog-title' into `$_GET['bslug']` and 'post-title' into `$_GET['pslug']`. \$params will look something like `array('pslug'=>'slug', 'bslug'=>'blog.slug')`, which maps `$_GET['pslug']` to the 'slug' attribute of the model defined in \$post, and `$_GET['bslug']` to the 'slug' attribute of model defined by the 'blog' relationship of the model defined in \$post..

If the ping is successful the server creates a record of the Linkback in an application defined model. The server maps internal properties to attributes of the model (see [linkbackAttributes](#)). As a minimum the model must store a reference to the document pointed to by the target URL, the



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source URL, and the type of ping in order to make the link between them; it may store additional information to provide human readable information about the Linkback that may be available in the ping. The intent is to allow Linkbacks to be stored in the same database table as user submitted comments if required.

Note: If an exception is raised by the server it sent as a response to the client with the error code = 0x810C (Application error). If Yii is in debug mode (YII_DEBUG===TRUE) the exception message is also sent, otherwise the message is set to "Application Error".

The server will raise an exception, for example, if a required property is undefined.

Public Properties

See [CExtController](#) for inherited properties.

Name	Type	Description
attributeMap	array	Maps LinkbackController internal properties to linkback model attributes.
content	string	Template for content to be stored when a Linkback is registered.
contentTypes	array	Content types from which Linkbacks are accepted.
encoding	string	Response encoding.
excerptEnding	string	The ending added to TrackBack excerpts.
excerptExact	boolean	Whether excerptLength is exact.
excerptLength	integer	The maximum length of TrackBack excerpts.
importPaths	mixed	Paths to import.
linkback	string	Path to the model that stores Linkbacks.
params	array	Maps target URL parameters to post model attributes.
post	string	Path to the model that stores linkbacks.
rules	array	Target URL routing rules.
scenario	string	The Linkback model scenario when a Linkback is registered.
status	mixed	The value given to the linkback model's status attribute.
title	string	Template for the title to be saved when a Linkback is registered.
validate	boolean	Whether validation is performed when the Linkback is registered.



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Public methods

See [CExtController](#) for inherited methods.

Name	Description
init()	Initializes the controller.
actionPingback()	The Pingback server.
actionTrackback()	The TrackBack server.

Protected methods

See [CExtController](#) for inherited methods.

Name	Description
linkbackRegistered()	This method is invoked when a Linkback has been registered.

Events

Name	Description
onLinkbackRegistered	This event is raised when a Linkback has been registered.

Property Details

attributeMap

```
public array $attributeMap;
```

Maps LinkbackController internal properties to linkback model attributes.

Each entry maps an internal property to a [linkback](#) model attribute; the key is the LinkbackController property, the value is the [linkback](#) model attribute name. Omit any non-required properties that do not have an equivalent attribute in your [linkback](#) model.

LinkbackController internal properties are:

- sourceUrl - The source URL (*required*)
- targetId - The id of the target post (*required*)
- type - The type of Linkback; pingback or trackback (*required*)
- blogName - The source blog name (Trackback pingss only)
- content - The content for the Linkback. [content](#) defines the template.
- ipAddress - The source IP address
- status - The status of this record on save. Defined by [status](#).
- title - The title of the source post. [title](#) defines the template.



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Defaults to array(

```
'sourceUrl' =>'url',  
'targetId'  =>'post_id',  
'type'      =>'type',  
'blogName'  =>'author',  
'content'   =>'content',  
'ipAddress' =>'ip_address',  
'status'    =>'status',  
'title'     =>'title'
```

);

content

```
public string $content;
```

Template for the [linkback](#) model's content attribute. The resulting string is saved in the [linkback](#) model's content attribute when a Linkback is registered.

See [attributeMap](#) for details on how to specify the [linkback](#) model's content attribute.

The following placeholders are recognised and will be replaced:

- {excerpt} - An excerpt from the source (TrackBacks only and excerpt must be in the ping).
- {blogName} - The source blog name (TrackBacks only and blog_name must be in the ping).
- {sourceUrl} - The source post URL.
- {title} - Either the title of the source or, if the title is not given, the source URL.
- {type} - The type of Linkback; Pingback or TrackBack.

To make a string containing a placeholder optional (i.e. rendered only if the placeholder has a value) enclose it in square brackets. Escape square brackets that are required in the output with a backslash.

Example: "{type} from {title}[\n\n{excerpt}]" is the equivalent of "{type} from {title}" if excerpt is empty.

Defaults to "{type} from {title}[\n\n{excerpt}]"

contentTypes

```
public array $contentTypes;
```

Content types from which Linkbacks are accepted.

Defaults to array('text/html', 'text/xml', 'application/xhtml+xml')

encoding

```
public string $encoding;
```

Response encoding.

Defaults to 'utf-8'



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excerptEnding

```
public string $excerptEnding;
```

The ending added to TrackBack excerpts.

[excerptLength](#) includes the length of this property, i.e. the excerpt text will be shortened by the length of this property.

Excerpts are only sent in TrackBack pings.

Defaults to '...'

excerptExact

```
public boolean $excerptExact;
```

Whether the length of TrackBack excerpts is exact.

Only valid if [excerptLength](#) is given.

If FALSE the excerpt is truncated on a word boundary such that the excerpt length is less than or equal to [excerptLength](#).

If TRUE the excerpt is truncated to exactly [excerptLength](#).

Excerpts are only sent in TrackBack pings.

Defaults to FALSE

excerptLength

```
public integer $excerptLength;
```

The maximum length of TrackBack excerpts.

Defaults to 255

importPaths

```
public mixed $importPaths;
```

Use to import model inheritances for post and linkback models if required. Leave empty if the models directly extend CActiveRecord or import required inheritances themselves.

An array or comma delimited string of path aliases.

Defaults to NULL

linkback

```
public string $linkback;
```

Path to the model that stores Linkbacks. If the model is imported in [importPaths](#) this property need only be the model class name.

This property is required.

Defaults to NULL



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params

```
public array $params;
```

Maps target URL parameters to post model attributes.

The format is 'URL param'=>'post model attribute'. Related model attributes are specified using dot notation; e.g. blog.id is the 'id' attribute of the model specified in the 'blog' relationship of the 'post' model.

This property is required.

Defaults to NULL

post

```
public string $post;
```

Path to the model that stores posts. If the model is imported in [importPaths](#) this property need only be the model class name.

This property is required.

Defaults to NULL

rules

```
public array $rules;
```

Target URL routing rules (pattern=>route).

This property is required.

Defaults to NULL

scenario

```
public string $scenario;
```

The linkback model scenario when a Linkback is registered.

Use this to ensure the Linkback is not validated against certain linkback model validation rules by setting the value of the rule's 'on' property. For example, if the linkback model is also used for user comments you may have CAPTCHA validation; a Linkback should not be validated against such a rule.

All validation can be turned off by setting [validate](#) FALSE.

Defaults to "linkback"

status

```
public mixed $status;
```

The value given to the Linkback's status attribute.

If specified in attributeMap, this value will be stored in the linkback model's attribute defined by attributeMap['status'] and should be set to a value that indicates that the Linkback is approved and/or can be displayed.

Defaults to "approved"



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title

```
public string $title;
```

Template for the linkback model's title attribute. The resulting string is stored in the linkback model's title attribute when a Linkback is registered.

See [attributeMap](#) for details on how to specify the linkback model's title attribute.

The following placeholders are recognised and will be replaced:

- {blogName} - The source blog name (TrackBacks only and must be in the ping).
- {sourceUrl} - The source post URL.
- {title} - Either the title of the source or the source URL if the title is not given.

To make a string containing a placeholder optional (i.e. rendered only if the placeholder has a value) enclose it in square brackets. Escape square brackets that are required in the output with a backslash.

Example: "{title}[@{blogName}]" is the equivalent of '{title}' if blogName is empty.

Defaults to "{title}[@{blogName}]"

validate

```
public boolean $validate;
```

Whether validation is performed when the Linkback is registered.

Defaults to TRUE

Method Details

init()

```
public void init()
```

Initialises the controller.

actionPingback()

```
public void pingback()
```

Implements the Pingback server.

actionTrackback()

```
public void actionTrackback()
```

Implements the TrackBack server.



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linkbackRegistered()

```
protected void linkbackRegistered(CModel $target)
```

\$target	CModel	The target post
-----------------	--------	-----------------

This method is invoked when a Linkback has been registered. The default implementation raises the onLinkbackRegistered event.

onLinkbackRegistered()

```
public void onLinkbackRegistered(CEvent $event)
```

\$event	CEvent	The event parameter
----------------	--------	---------------------

This event is raised when a Linkback has been registered.

Event Details

linbackRegistered

This event is raised when a Linkback has been registered.

Parameters

Parameters are an array of key=>value pairs.

name	string	The name of the event; 'onLinkbackRegistered'
target	CModel	The target document



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Response Codes

Both the Pingback and TrackBack server response codes are those defined in the [Pingback 1.0 specification](#) and [Specification for Fault Code Interoperability, version 20010516](#), plus three application defined codes (the Trackback specification only defines the response code for a successful ping; other responses are implementation defined); they are listed below.

Response Code		Description	Specification
0	0x0000	Success - TrackBack only (lack of a code denotes success for a Pingback)	TrackBack
16	0x0010	Source URI does not exist.	Pingback
17	0x0011	Source URI does not link to target URI.	Pingback
18	0x0012	Source URI not specified.	Application
32	0x0020	Target URI does not exist.	Pingback
33	0x0021	Target URI cannot be used.	Pingback
48	0x0030	Linkback already registered.	Pingback
49	0x0031	Access denied.	Pingback
50	0x0032	Linkback not registered.	Application
51	0x0033	Invalid content type.	Application
-32700	0x8044	xmlrpc parse error; not well formed.	SFCI
-32600	0x80A8	Server error. Invalid xml-rpc; not conforming to spec.	SFCI
-32601	0x80A7	Server error. Requested method not found.	SFCI
-32602	0x80A6	Server error. Invalid method parameters.	SFCI
-32500	0x810C	Application error (details of the error are in the message)	SFCI

Note: Server errors are logged.

WARNING: If you have debug turned on that outputs to the browser, server responses may be seen by clients as non-well formed XML due to the extra content.



Linkback Extension

Linkback Client

LinkbackClientBehavior

Inheritance

LinkbackClientBehavior » [CBehavior](#) » [CComponent](#)

LinkbackClientBehavior implements Pingback and TrackBack clients.

The Pingback client is compliant with the Pingback 1.0 specification (<http://www.hixie.ch/specs/pingback/pingback#compliant>).

The TrackBack client is compliant with the TrackBack 1.2 specification (http://www.sixapart.com/pronet/docs/trackback_spec).

Posts are parsed to extract external links which are then searched for Pingback or TrackBack server auto-discovery code; if a server is found a Linkback ping is sent to it. If the Linkback ping is successful it is recorded to prevent further pings being sent to the server about the post. The Linkback is also registered if the sever response code to a Pingback ping is 0x0030 (Linkback already registered).

LinkbackClientBehavior uses two database tables that are automatically created if they do not exist; these record successful Linkbacks to prevent further pings for them, and which posts are currently pinging to prevent duplicate pings if the server accesses the post when pinged. The schema for these is are given in Appendix A – Linkback Client Database Table Schema.

LinkbackClientBehavior sends server responses to the [Yii::trace\(\)](#) method to assist debugging.

Public Properties

See [CBehavior](#) for inherited properties.

Name	Type	Description
attributes	mixed	The post attributes parsed for external links.
blogName	string	The name of the blog.
encoding	string	Pingback ping encoding.
excerptAttribute	string	The post attribute used for TrackBack excerpts.
excerptDelimiter	string	The string used to truncate TrackBack excerpts.
excerptEnding	string	The ending added to TrackBack excerpts.
excerptExact	boolean	Whether excerptLength is exact.
excerptLength	integer	The maximum length of TrackBack excerpts.
linkbacks	mixed	The types of Linkbacks we can send.
linkbacksTable	string	The name of the table used to record successful Linkbacks.



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Name	Type	Description
pingsTable	string	The name of the table used to record current pings.
titleAttribute	string	The post title attribute.

Public methods

See [CBehavior](#) for inherited methods.

Name	Description
attach()	Attaches the behavior object to the component.
linkback()	Generate pings.

Protected methods

See [CBehavior](#) for inherited methods.

Name	Description
linkbackRegistered()	This method is invoked when a Linkback has been registered.

Events

Name	Description
onLinkbackRegistered	This event is raised when a Linkback has been registered.

Property Details

attributes

```
public mixed $attributes;
```

The post attributes parsed for external links.

Either an array of attribute names or a string that is a comma delimited list of attribute names.

URLs found in these attributes are searched for Linkback server auto-detect code and a ping sent to the server if found.

The content of these attributes must be visible in the post when it is read.

Defaults to 'content'



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blogName

```
public string $blogName;
```

The name of the blog.

Set empty to not send the blog name.

The blog name can also be set "on the fly" when generating Linkbacks for a given post (see [linkback\(\)](#)).

The blog name is only sent in TrackBack pings.

Defaults to NULL

encoding

```
public string encoding;
```

Pingback ping encoding.

Defaults to 'utf-8'

excerptAttribute

```
public string $excerptAttribute;
```

The post attribute used for TrackBack excerpts.

Excerpts are only sent in TrackBack pings.

Defaults to 'content'

excerptDelimiter

```
public string $excerptDelimiter;
```

The string used to truncate TrackBack excerpts.

The excerpt will be up to and including the first occurrence of the delimiter; this makes it easy to – for example – use the first sentence as the excerpt. The excerpt may be further truncated to [excerptLength](#).

Set empty not to truncate excerpts using a delimiter.

Excerpts are only sent in TrackBack pings.

Defaults to '.'

excerptEnding

```
public string $excerptEnding;
```

The ending added to TrackBack excerpts.

[excerptLength](#) includes the length of this property, i.e. the excerpt text will be shortened by the length of this property.

Excerpts are only sent in TrackBack pings.

Defaults to '...'



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excerptExact

```
public boolean $excerptExact;
```

Whether the length of TrackBack excerpts is exact.

Only valid if [excerptLength](#) is given.

If FALSE the excerpt is truncated on a word boundary such that the excerpt length is less than or equal to [excerptLength](#).

If TRUE the excerpt is truncated to exactly [excerptLength](#).

Excerpts are only sent in TrackBack pings.

Defaults to FALSE

excerptLength

```
public integer $excerptLength;
```

The maximum length of TrackBack excerpts.

Set empty not to truncate excerpts.

Excerpts are only sent in TrackBack pings.

Defaults to 255

linkbacks

```
public mixed $linkbacks;
```

The types of Linkbacks we can send.

Either an array or a comma delimited string of Linkback types. Servers are searched for in the order given; the first discovered server is used.

Valid Linkback types are 'pingback' and 'trackback'.

Defaults to 'pingback, trackback'

linkbacksTable

```
public string $linkbacksTable;
```

The name of the table used to record successful Linkbacks.

Defaults to 'linkbacks'

pingsTable

```
public string $pingsTable;
```

The name of the table used to record current pings.

Defaults to 'linkback_pings'



Linkback Extension

titleAttribute

```
public string $titleAttribute;
```

The post title attribute.

Set empty to not send the title.

The post title is only sent in TrackBack pings.

Defaults to 'title'

Method Details

attach()

```
public void attach(CComponent $owner)
```

Attaches the behavior object to the component. Sets the [owner](#) property, attaches event handlers as declared in [events](#), and creates the linkbackTable and pingsTable if they do not exist. Make sure you call the parent implementation if you override this method.

linkback()

```
public void linkback(CModel $post, string $sourceUrl , $blogName=null);
```

\$post	CModel	The post
\$sourceUrl	string	The absolute URL to the post
\$blogName	string	The name of the blog. If set, this overwrites the blog name set in the configuration. Used in multi-blog applications where the blog is determined from the post.

Generates Linkback pings to external URLs in the post that have a Linkback server.

linkbackRegistered()

```
protected void linkbackRegistered(CModel $post, string $targetUrl)
```

\$post	CModel	The post that generated the linkback
\$targetUrl	string	The target URL of the ping

This method is invoked when a Linkback has been registered. The default implementation raises the onLinkbackRegistered event.

onLinkbackRegistered()

```
public void onLinkbackRegistered(CEvent $event)
```

\$event	CEvent	The event parameter
---------	------------------------	---------------------

This event is raised when a Linkback has been registered.

Event Details

onLinkbackRegistered

This event is raised when a Linkback has been registered.



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Parameters

Parameters are an array of key=>value pairs.

name	string	The name of the event; 'onLinkbackRegistered'.
post	CModel	The source post.
targetUrl	String	The target URL.



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Appendix A – Linkback Client Database Table Schema

Linkbacks Table

```
CREATE TABLE `linkbacks` (  
  `post_id` int(11) UNSIGNED NOT NULL ,  
  `target_url` varchar(255) NOT NULL ,  
  PRIMARY KEY (`post_id`, `target_url`)  
);
```

LinkbackPings Table

```
CREATE TABLE `linkback_pings` (  
  `post_id` int(11) UNSIGNED NOT NULL ,  
  );
```