

# phpPoA2



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# AutoPoA.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
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# definitions.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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AS\_T = 1 [*line 80*]

**'AS' type redirection in the PAPI 1.5 protocol.**

AUTHN\_FAILED = false [*line 35*]

**Authentication failed.**

AUTHN\_SUCCESS = true [*line 30*]

**Authentication succeeded.**

AUTHZ\_FAILED = false [*line 45*]

**Authorization failed.**

AUTHZ\_SUCCESS = true [*line 40*]

**Authorization succeeded.**

CONFIG\_ERR = 2 [*line 60*]

**A configuration related error.**

GPOA\_T = 0 [*line 75*]

**'GPoA' type redirection in the PAPI 1.5 protocol.**

INVITE\_ERR = 3 [*line 65*]

**An invitation related error.**

NOAUTH\_ERR = 0 [*line 50*]

**Authentication failed error.**

SYSTEM\_ERR = 1 [*line 55*]

**A system related error.**

USER\_ERR = 4 [*line 70*]

**An error triggered by the user.**

# AuthenticationEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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# crypt.php

- **Package** phpPoA2
- **Version** 2.0
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*void function decrypt\_3DES(\$input, \$key) [line [114](#)]*

***Function Parameters:***

- **\$input**
- **\$key**

*void function decrypt\_AES(\$input, \$key) [line [67](#)]*

***Function Parameters:***

- **\$input**
- **\$key**

*void function encrypt\_3DES(\$input, \$key) [line [92](#)]*

***Function Parameters:***

- **\$input**
- **\$key**

*void* function encrypt\_AES(\$input, \$key) [*line* [46](#)]

**Function Parameters:**

- **\$input**
- **\$key**

*void* function openssl\_decrypt(\$in, \$key, \$key\_bits) [*line* [41](#)]

**Function Parameters:**

- **\$in**
- **\$key**
- **\$key\_bits**

*void* function openssl\_encrypt(\$in, \$key, \$key\_bits) [*line* [36](#)]

**Function Parameters:**

- **\$in**
- **\$key**
- **\$key\_bits**

PADDINGSIZE = 11 [*line* [29](#)]

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*void function* `papi_openssl_decrypt($in, $key, [$key_bits = 0])` [*line* [187](#)]

***Function Parameters:***

- **\$in**
- **\$key**
- **\$key\_bits**

*void function* `papi_openssl_encrypt($in, $key, [$key_bits = 0])` [*line* [144](#)]

***Function Parameters:***

- **\$in**
- **\$key**
- **\$key\_bits**

# GenericConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# GenericEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# Hook.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# LitePoA.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PoA.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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include\_once ["LitePoA.php"](#)*[line 40]*

include\_once ["AutoPoA.php"](#)*[line 39]*

require\_once ["PoAEventHandler.php"](#)*[line 38]*

require\_once ["utils.php"](#)*[line 37]*

# PoAConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PoAEventHandler.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PoAException.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PoALog.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# papi1.5-slo-extra.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#)*[line 9]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

# papi1.5-slo.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#)*[line 9]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# authz\_convert.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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ROOT = 'PATH\_TO\_YOUR\_DB\_DIR' [*line 30*]

**Authorized DB converter tool from phpPoA1 to phpPoA2.**

# invite\_convert.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# utils.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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*string* function lang\_code(\$filename) [*line* [44](#)]

**Function Parameters:**

- *filename* **\$filename** The name of the file.

**Return the language code identifying applicable to a messages file.**

*string* function msg(\$s, [\$args = array()]) [*line* [33](#)]

**Function Parameters:**

- *s* **\$s** The identifier of the message.
- *args* **\$args** An array of arguments that the message expects.

Return the internationalized message identified by the code 's'.

## Class AuthenticationEngine

[[line 31](#)]

**Abstract authentication engine.**

- **Package** phpPoA2
- **Abstract Element**

**AuthenticationEngine::\$engine\_type**

*mixed* = "Authn" [[line 33](#)]

- **Access** protected

*boolean* function AuthenticationEngine::authenticate() [[line 41](#)]

**Trigger the authentication of the user in the current context. May perform HTTP redirections or any other procedure to gather the authentication status if the user, so don't expect it to return control once called.**

- **Abstract Element**
- **Access** public

*string/array* function AuthenticationEngine::getAttribute(\$name, [\$namespace = ""]) [[line](#)

[65](#)]

**Function Parameters:**



- *name* **\$name** The name of the attribute.
- *namespace* **\$namespace** The namespace of the attribute.

**Get an specific attribute for the current user, by specifying its name and namespace. May trigger some attribute query procedure.**

- **Abstract Element**
- **Access** public

*array* function AuthenticationEngine::getAttributes() [[line 55](#)]

**Get an associative array with the set of common attributes for the current user. May trigger some attribute recollection.**

- **Abstract Element**
- **Access** public

*boolean* function AuthenticationEngine::isAuthenticated() [[line 48](#)]

**Check the current authentication status withing this context. Does not trigger any authentication procedure.**

- **Abstract Element**
- **Access** public

*void* function AuthenticationEngine::logout([\$slo = false]) [[line 72](#)]

**Function Parameters:**

- *s/o* **\$slo** Whether to perform the logout globally (Single Log Out) or not. Defaults to local.

Perform a logout (locally or global).

- **Abstract Element**
- **Access** public

## Class AuthorizationConfigurator

*[line 26]*

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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- **Abstract Element**
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*boolean* function AuthorizationConfigurator::getDefaultBehaviour() [*line 33*]

**Determines the default behaviour of the authorization engine, whether it should authorize or not if no pattern (nor allowed nor denied) matches.**

- **Access** public

## Class AuthorizationEngine

[*line 26*]

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
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- **Abstract Element**
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**AuthorizationEngine::\$engine\_type**

*mixed* = "Authz" [*line 28*]

- **Access** protected

*boolean* function AuthorizationEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [*line 47*]

**Function Parameters:**

- **\$user**
- **\$attrs**
- **\$ref**
- **\$expires**

- **Abstract Element**
- **Access** public

*array* function AuthorizationEngine::getAuthorizedList() [*line 42*]

- **Abstract Element**
- **Access** public

*boolean* function AuthorizationEngine::isAuthorized(\$user, \$attrs) [*line 37*]

**Function Parameters:**

- *user* **\$user** The string that identifies the user.
- *attrs* **\$attrs** All attributes related to the user.

**Check authorization for the specified user.**

- **Abstract Element**
- **Access** public

*boolean* function AuthorizationEngine::revoke(\$mail) [*line 52*]

**Function Parameters:**

- **\$mail**

- **Abstract Element**
- **Access** public

## Class AutoPoA

[*line 30*]

**Class that automatically redirects to error pages if any error is detected.**

- **Package** phpPoA2

*void* function AutoPoA::authenticate() [*line 32*]

- **Access** public

`void function AutoPoA::isAuthorized($user, $attrs, [$engine = null])` [[line 40](#)]

**Function Parameters:**

- **\$user**
  - **\$attrs**
  - **\$engine**
- 
- **Access** public

## Class GenericConfigurator

[[line 31](#)]

**Generic configuration class.**

- **Package** phpPoA2
- **Abstract Element**

### GenericConfigurator::\$cfg

*mixed* = array() [[line 33](#)]

- **Access** protected

### GenericConfigurator::\$mandatory\_options

*mixed* = array() [[line 34](#)]

- **Access** protected

Constructor *void* function GenericConfigurator::\_\_construct(\$file, \$site) [*line* [42](#)]

**Function Parameters:**

- *file* **\$file** The file which stores the configuration.
- *site* **\$site** The section of the configuration that applies for the current site.

**Main constructor.**

- **Throws** PoAException if any error occurs.
- **Access** public

*void* function GenericConfigurator::configure(\$file, \$site) [*line* [59](#)]

**Function Parameters:**

- *file* **\$file** The file which stores the configuration.
- *site* **\$site** The section of the configuration that applies for the current site.

**Read the configuration from the specified file and section.**

- **Throws** PoAException if any error occurs.
- **Access** protected

*boolean* function GenericConfigurator::validate([\$mandatory = null]) [*line* [84](#)]

**Function Parameters:**

- *mandatory* **\$mandatory** Optional. An array of mandatory attributes that should be searched within the current configuration.

**Check all mandatory attributes are set.**

- **Throws** PoAException if any error occurs.
- **Access** public

## Class GenericEngine

[line [31](#)]

**A generic engine class.**

- **Package** phpPoA2
- **Abstract Element**

**GenericEngine::\$cfg**

*mixed* = [line [33](#)]

- **Access** protected

**GenericEngine::\$engine\_type**

*mixed* = [line [36](#)]



- **Access** protected

### GenericEngine::\$hooks

*mixed* = array() [[line 34](#)]

- **Access** protected

### GenericEngine::\$valid\_hooks

*mixed* = array() [[line 35](#)]

- **Access** protected

Constructor *void* function GenericEngine::\_\_construct(\$file, \$site) [[line 43](#)]

#### **Function Parameters:**

- *file* **\$file** The path to the configuration file. Can be in the include path.
- *section* **\$site** The section of the configuration file, if any.

### Main constructor for the engine.

- **Access** public

*boolean* function GenericEngine::addHook(\$name, \$hook) [[line 70](#)]

#### **Function Parameters:**

- *name* **\$name** The name of the hook.
- *hook* **\$hook** A mixed object. Can be the name of a function (string) or an array with two elements: the former, the name of a class or an object, and the latter the name of the method.

**Adds a function to the specified hook, which will be executed at some point of the code.**

- **Access** public

*void* function GenericEngine::configure(\$file, \$section) [*line* [53](#)]

**Function Parameters:**

- *file* **\$file** The path to the configuration file. Can be in the include path.
- *section* **\$section** The section of the configuration file, if any.

**Configure the engine.**

- **Access** public

*boolean* function GenericEngine::removeHook(\$name, \$hook) [*line* [92](#)]

**Function Parameters:**

- *name* **\$name** The name of the hook.
- *hook* **\$hook** A mixed object. Can be the name of a function (string) or an array with two elements: the former, the name of a class or an object, and the latter the name of the method.

**Removes a function from the specified hook.**

- **Access** public

void function GenericEngine::runHooks(\$hook, &\$params) [[line 117](#)]

**Function Parameters:**

- *hook* **\$hook** The name of the hook.
- *params* **&\$params** An array with all params (in order) that must be passed to the function.

**Run all hooks attached to an specific action.**

- **Access** protected

## Class Hook

[[line 30](#)]

**Hook class that allows to run a function or a method specified by their name.**

- **Package** phpPoA2

**Hook::\$\_callable\_name**

*mixed* = [[line 33](#)]

- **Access** protected

**Hook::\$\_hook**

*mixed* = [line [32](#)]

- **Access** protected

**Hook::\$\_name**

*mixed* = [line [34](#)]

- **Access** protected

Constructor *boolean* function Hook::\_\_construct(\$hook) [line [42](#)]

**Function Parameters:**

- *hook* **\$hook** The name of a function or an array specifying a class and its method.

**Build a new hook.**

- **Throws** PoAException if something goes wrong.
- **Access** public

*string* function Hook::getName() [line [120](#)]

**Get the name of the hook.**

- **Access** public

*boolean* function Hook::run(&\$args) [*line* [103](#)]

**Function Parameters:**

- **args &\$args** An array with all the params the function receives.

**Run the hook with the specified params.**

- **Access** public

## Class LitePoA

[*line* [33](#)]

**Class that embeds all functionality (authentication, attribute collection and authorization) in one method, just like older versions of phpPoA.**

- **Package** phpPoA2
- **Deprecated** This class is for backwards compatibility. Please avoid using it.

**LitePoA::\$handler**

*mixed* = [*line* [35](#)]

- **Access** protected

A function LitePoA::checkAccess() [[line 55](#)]

**A shortcut for the whole authentication and authorization process.**

User will be authenticated, his attributes collected and then he will be checked for authorization with the identifier built with the ID builder function.

- **Deprecated** This method is for backwards compatibility. Please avoid using it.
- **Access** public

void function LitePoA::setIDBuilder(\$handler) [[line 43](#)]

**Function Parameters:**

- *handler* **\$handler** The name of the function.

**Set an attribute handler to build identifiers for the users according to their attributes. Method must receive a hash of attributes ("name" => "value").**

- **Access** public

## Class PoA

[[line 46](#)]

**Standard class that implements all the functionality of the phpPoA.**

- **Package** phpPoA2

### PoA::\$attributes

*mixed* = [[line 51](#)]

- **Access** protected

### PoA::\$authn\_engine

*mixed* = [[line 50](#)]

- **Access** protected

### PoA::\$authz\_engines

*mixed* = [[line 52](#)]

- **Access** protected

### PoA::\$autoload

*mixed* = [[line 54](#)]

- **Access** protected

### PoA::\$cfg

*mixed* = [[line 48](#)]

- **Access** protected

#### **PoA::\$db\_manager**

*mixed* = [[line 53](#)]

- **Access** protected

#### **PoA::\$handler**

*mixed* = [[line 55](#)]

- **Access** protected

#### **PoA::\$local\_site**

*mixed* = [[line 47](#)]

- **Access** protected

#### **PoA::\$log**

*mixed* = [[line 49](#)]

- **Access** protected

Constructor *void* function PoA::\_\_construct(\$site) [[line 61](#)]

#### **Function Parameters:**

- *site* **\$site** The identifier to determine which configuration to apply.



**Main constructor. Configures the PoA and performs initialization.**

- **Access** public

*true* function PoA::addHook(\$name, \$hook) [*line* [125](#)]

**Function Parameters:**

- *name* **\$name** The name of the hook. Refer to each individual engine for a complete list of available hooks.
- *hook* **\$hook** A hook object with the function or method to attach.

**Attach a hook object to the appropriate entry point of the available authentication or authorization engines.**

- **Access** public

*AUTHN\_SUCCESS* function PoA::authenticate() [*line* [178](#)]

**Perform a federated login for the user.**

- **Access** public

*AUTHZ\_SUCCESS* function PoA::authorize(\$user, \$attrs, [\$reference = null], [\$expires = 0], [\$engine = null]) [*line* [381](#)]

**Function Parameters:**

- *user* **\$user** The subject of authorization.

- *attrs* **\$attrs** The attributes of the user.
- *reference* **\$reference** An internal reference that may be valuable for the engine, typically referring to a previous invitation or similar.
- *expires* **\$expires** The time (POSIX) when authorization will expire. Use 0 if authorization should never expire. Defaults to 0.
- *engine* **\$engine** The authorization engine(s) to use. All engines are used if none specified. If more than one engine should be checked then this must be an array.

### Authorize a given subject with the data retrieved from federated login.

Multiple authorization engines are supported, so authorization will be done in all of them.

- **Access** public

*void* function PoA::clean() [*line* [110](#)]

- **Access** protected

*the* function PoA::getAttribute(\$name, \$namespace) [*line* [268](#)]

#### **Function Parameters:**

- *name* **\$name** The name of the attribute.
- *namespace* **\$namespace** The namespace of the attribute, if any.

### Get the value (or values) of an attribute, if present.

- **Access** public

an function PoA::getAttributes() [[line 244](#)]

**Retrieve the attributes provided by the user when logged in.**

- **Access** public

The function PoA::getAuthorizationEngines([\$engine = null]) [[line 464](#)]

**Function Parameters:**

- *engine* **\$engine** The name of the authorization engine to retrieve. If more than one engine should be returned then this must be an array.

**Returns the authorization engines configured for the current PoA, or the one specified.**

- **Access** public

*AUTHN\_SUCCESS* function PoA::isAuthenticated() [[line 214](#)]

**Query the current status of the user in the federation.**

- **Access** public

*AUTHZ\_SUCCESS* function PoA::isAuthorized(\$user, \$attrs, [\$engine = null]) [[line 323](#)]

**Function Parameters:**

- *user* **\$user** The subject queried.
- *attrs* **\$attrs** The attributes of the user.
- *engine* **\$engine** The authorization engine(s) to use. All engines are used if none specified. If more than one engine should be checked then this must be an array.

### Perform authorization for the a given subject.

Multiple authorization engines are supported, so authorization will succeed if any of these succeeds.

- **Access** public

*true* function PoA::logout(\$slo) [*line* [291](#)]

#### **Function Parameters:**

- *slo* **\$slo** Whether to perform a Single Log Out or a local logout.

### Remove the user's session and trigger a logout for the specified authentication protocol.

- **Access** public

*true* function PoA::removeHook(\$name, \$hook) [*line* [151](#)]

#### **Function Parameters:**

- *name* **\$name** The name of the hook. Refer to each individual engine for a complete list of available hooks.
- *hook* **\$hook** The hook object which shall be removed.

### Remove a hook from the specified entry point of the available authentication or authorization engines.

- **Access** public

*true* function PoA::revoke(\$mail, [\$engine = null]) [*line* [422](#)]

**Function Parameters:**

- *mail* **\$mail** The e-mail of the user.
- *engine* **\$engine** The authorization engine(s) to use. All engines are used if none specified. If more than one engine should be checked then this must be an array.

**Revoke authorization for a given subject identified by an e-mail.**

- **Access** public

## Class PoAConfigurator

[*line* [30](#)]

**Main configurator for the phpPoA.**

- **Package** phpPoA2

**PoAConfigurator::\$mandatory\_options**

*mixed* = array('LogFile',  
                  'LogLevel') [*line* [32](#)]

- **Access** protected

Constructor *void* function PoAConfigurator::\_\_construct(\$site, [\$file = null]) [*line* [35](#)]

**Function Parameters:**

- **\$site**
- **\$file**

- **Access** public

*void* function PoAConfigurator::getAuthnEngine() [*line* [93](#)]

- **Access** public

*void* function PoAConfigurator::getAuthnEngineConfFile() [*line* [105](#)]

- **Access** public

*void* function PoAConfigurator::getAuthzEngineConfFile(\$engine) [*line* [109](#)]

**Function Parameters:**

- **\$engine**

- **Access** public

*void* function PoAConfigurator::getAuthzEngines() [*line* [97](#)]

- **Access** public

*void* function PoAConfigurator::getInviteErrorURL() [*line* [89](#)]

- **Access** public

*void* function PoAConfigurator::getLanguage() [*line* [73](#)]

- **Access** public

*void* function PoAConfigurator::getLogFile() [*line* [65](#)]

- **Access** public

*void* function PoAConfigurator::getLogLevel() [*line* [77](#)]

- **Access** public

*void* function PoAConfigurator::getNoAuthErrorURL() [*line* [81](#)]

- **Access** public

*void* function PoAConfigurator::getSystemErrorURL() [*line* [85](#)]

- **Access** public

*void function PoAConfigurator::isDebug()* [[line 69](#)]

- **Access** public

## Class PoAEventHandler

[[line 30](#)]

**Class to handle events inside the library.**

- **Package** phpPoA2

Constructor *void function PoAEventHandler::\_\_construct(\$site, [\$log = null], [\$debug = false])* [[line 39](#)]

### **Function Parameters:**

- **\$site**
- **\$log**
- **\$debug**

**Main constructor.**

- **Access** public

*void function PoAEventHandler::abort(\$code, \$message)* [[line 64](#)]

### **Function Parameters:**



- **\$code**
- **\$message**

**Finish execution and print an error message with the current backtrace.**

- **Access public**

*void function PoAEventHandler::autoloadHandler(\$class\_name) [line [83](#)]*

***Function Parameters:***

- **\$class\_name**

**Override `__autoload` standard function to allow loading classes dinamically.**

*void function PoAEventHandler::errorHandler(\$code, \$message, \$file, \$line) [line [116](#)]*

***Function Parameters:***

- *code* **\$code** The error code.
- *message* **\$message** The error message.
- *file* **\$file** The file that triggered the error.
- *line* **\$line** The line of the file where the error was triggered.

**A generic error handler that logs the error message.**

- **Access public**

*void* function PoAEventHandler::exceptionHandler(\$exception) [*line* [105](#)]

**Function Parameters:**

- *exception* **\$exception** The caught exception.

**A generic exception handler that logs the exception message.**

- **Access** public

*void* function PoAEventHandler::setDebug(\$debug) [*line* [57](#)]

**Function Parameters:**

- *debug* **\$debug** A boolean value telling whether to make debugging active or not.

**Set debugging mode.**

- **Access** public

*void* function PoAEventHandler::setLogger(\$log) [*line* [49](#)]

**Function Parameters:**

- *log* **\$log** The logger to use.

**Set the logger.**

- **Access** public

# Class PoAException

[*line* [30](#)]

Exception handler class for the phpPoA.

- **Package** phpPoA2

Constructor *void* function PoAException::\_\_construct(\$message, \$code, [\$args = null]) [*line* [33](#)]

**Function Parameters:**

- **\$message**
- **\$code**
- **\$args**

- **Access** public

*void* function PoAException::\_\_toString() [*line* [40](#)]

- **Access** public

# Class PoALog

[[line 30](#)]

A simple class to write log messages to a file.

- **Package** phpPoA2

Constructor *void* function PoALog::\_\_construct(\$level, \$file) [[line 39](#)]

**Function Parameters:**

- *level* **\$level** The level of this log.
- *file* **\$file** The file where to write messages.

**Build a new logger.**

- **Access** public

*integer* function PoALog::getLogLevel() [[line 72](#)]

**Get the current log level.**

- **Access** public

*void* function PoALog::write(\$msg, [\$level = E\_USER\_NOTICE]) [[line 58](#)]

**Function Parameters:**

- *msg* **\$msg** The message to write.
- *level* **\$level** The level of the message.

**Write a message to the log file if the current log level allows it.**

- **Access** public

# AttributeFilterAuthzEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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ATTRIBUTE\_BEFORE\_FILTERS = "ATTRIBUTE\_BEFORE\_FILTERS" [*line 37*]

**This hook is executed right after retrieving the arrays of allowed and denied attributes that will be checked immediately.**

It can be used to configure the filters on runtime and modify the user's attributes. The hook receives the attributes, and the allowed and denied attribute arrays. Functions for this hook must be defined like this:

```
function attributeBeforeFilterHook(&$attrs, &$allowed, &$denied);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

# AttributeFilterConfigurator.php

- **Package** phpPoA2
- **Sub-Package** AttributeFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## papi1.5-attr-authz.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** AttributeFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

*void function attrHook(&\$attrs, &\$allowed, &\$denied) [line 17]*

**Function Parameters:**

- **&\$attrs**
- **&\$allowed**
- **&\$denied**

include ["./PoA.php"](#) [line 10]

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

## Class AttributeFilterAuthzEngine

[line 46]



**Authorization engine that works by checking the attributes of the user. The first match of an attribute against one of the filters will trigger the authorization result, no matter if it's positive or negative.**

- **Package** phpPoA2
- **Sub-Package** AttributeFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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#### **AttributeFilterAuthzEngine::\$valid\_hooks**

*mixed* = array(ATTRIBUTE\_BEFORE\_FILTERS) [*line* [48](#)]

- **Access** protected

*void* function AttributeFilterAuthzEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [*line* [90](#)]

#### **Function Parameters:**

- **\$user**
- **\$attrs**
- **\$ref**

- **\$expires**

- **Access** public

*void* function AttributeFilterAuthzEngine::getAuthorizedList() [*line* [86](#)]

- **Access** public

*void* function AttributeFilterAuthzEngine::isAuthorized(\$user, \$attrs) [*line* [50](#)]

***Function Parameters:***

- **\$user**
- **\$attrs**

- **Access** public

*void* function AttributeFilterAuthzEngine::revoke(\$mail) [*line* [94](#)]

***Function Parameters:***

- **\$mail**

- **Access** public

# Class AttributeFilterConfigurator

[line 33]

Configurator for the Attribute Filter Authorization Engine.

- **Package** phpPoA2
- **Sub-Package** AttributeFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## AttributeFilterConfigurator::\$mandatory\_options

*mixed* = array("Allowed", "Denied") [line 35]

- **Access** protected

*array* function AttributeFilterConfigurator::getAllowedAttributes() [line 42]

**Returns an array of attributes that would be allowed if their values match any of the patterns for each attribute.**

- **Access** public

*array* function AttributeFilterConfigurator::getDeniedAttributes() [*line* [51](#)]

**Returns an array of attributes that would be denied if their values match any of the patterns for each attribute.**

- **Access** public

# DBADB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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# GenericDB.php

- **Package** phpPoA2
- **Author** Candido Rodriguez < [candido.rodriguez@rediris.es](mailto:candido.rodriguez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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# GenericMySQLDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# SessionDB.php

- **Package** phpPoA2
- **Author** Candido Rodriguez < [candido.rodriguez@rediris.es](mailto:candido.rodriguez@rediris.es)>
- **Version** 2.0
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## Class DBADB

[*line* [31](#)]

**Berkeley DB backend.**

- **Package** phpPoA2
- **Sub-Package** GenericDatabaseHandlers

**DBADB::\$mandatory\_options**



*mixed* = array("DBFile") [*line* [33](#)]

- **Access** protected

*void* function DBADB::check(\$key) [*line* [40](#)]

**Function Parameters:**

- **\$key**

- **Access** public

*void* function DBADB::close() [*line* [71](#)]

- **Access** public

*void* function DBADB::delete(\$key) [*line* [64](#)]

**Function Parameters:**

- **\$key**

- **Access** public

*void* function DBADB::fetch(\$key) [*line* [50](#)]

**Function Parameters:**

- **\$key**

- **Access** public

*void* function DBADB::fetch\_all() [*line* [54](#)]

- **Access** public

*void* function DBADB::open() [*line* [35](#)]

- **Access** public

*void* function DBADB::replace(\$key, \$value) [*line* [44](#)]

***Function Parameters:***

- **\$key**
- **\$value**

- **Access** public

## Class GenericDB

[*line* [31](#)]

**Provides the basic operations and defines the interface of any DB operating class.**

- **Package** phpPoA2
- **Sub-Package** GenericDatabaseHandlers
- **Abstract Element**

#### **GenericDB::\$cfg**

*mixed* = [[line 33](#)]

- **Access** protected

#### **GenericDB::\$db**

*mixed* = [[line 35](#)]

- **Access** protected

#### **GenericDB::\$error**

*mixed* = null [[line 34](#)]

- **Access** protected

#### **GenericDB::\$mandatory\_options**

*mixed* = array() [[line 36](#)]

- **Access** protected

Constructor *void* function GenericDB::\_\_construct(\$cfg) [[line 42](#)]

**Function Parameters:**

- *cfg* **\$cfg** A \*Configurator object with the current configuration.

**Main constructor.**

- **Access** public

*boolean* function GenericDB::check(\$key) [[line 76](#)]

**Function Parameters:**

- *key* **\$key** The key to look for.

**Checks if the specified key exists in the database.**

- **Abstract Element**
- **Access** public

*boolean* function GenericDB::close() [[line 69](#)]

**Closes the database.**

- **Abstract Element**
- **Access** public

*boolean* function GenericDB::configure() [[line 54](#)]

**Configure the database handler.**

- **Access** protected

*boolean* function GenericDB::delete(\$key) [[line 105](#)]

**Function Parameters:**

- *key* **\$key** The key to remove.

**Removes the specified key from the database.**

- **Abstract Element**
- **Access** public

*mixed|boolean* function GenericDB::fetch(\$key) [[line 92](#)]

**Function Parameters:**

- *key* **\$key** The key to look for.

**Gets the value of the specified key.**

- **Abstract Element**
- **Access** public

*array* function GenericDB::fetch\_all() [[line 98](#)]

**Gets all the contents stored in the database.**

- **Abstract Element**
- **Access** public

*boolean* function GenericDB::open() [*line* [63](#)]

**Opens the database.**

- **Abstract Element**
- **Access** public

*boolean* function GenericDB::replace(\$key, \$value) [*line* [85](#)]

**Function Parameters:**

- *key* **\$key** The key to replace.
- *value* **\$value** The new value for the specified key.

**Replaces the specified key with a new value. If the key does not exist previously, it will be created.**

- **Abstract Element**
- **Access** public

# Class GenericMySQLDB

[[line 32](#)]

Generic MySQL database class.

- **Package** phpPoA2
- **Sub-Package** GenericDatabaseHandlers
- **Abstract Element**

## GenericMySQLDB::\$create\_sql

*mixed* = [[line 38](#)]

- **Access** protected

## GenericMySQLDB::\$delete\_sql

*mixed* = [[line 38](#)]

- **Access** protected

## GenericMySQLDB::\$insert\_sql

*mixed* = [[line 38](#)]

- **Access** protected

## GenericMySQLDB::\$mandatory\_options

```
mixed = array("DBHost",  
              "DBUser",  
              "DBPassword",
```

"DBName") [[line 34](#)]

- **Access** protected

**GenericMySQLDB::\$prefix**

*mixed* = [[line 39](#)]

- **Access** protected

**GenericMySQLDB::\$search\_all\_sql**

*mixed* = [[line 38](#)]

- **Access** protected

**GenericMySQLDB::\$search\_sql**

*mixed* = [[line 38](#)]

- **Access** protected

**GenericMySQLDB::\$update\_sql**

*mixed* = [[line 38](#)]

- **Access** protected

*void* function GenericMySQLDB::check(\$key) [[line 55](#)]



#### **Function Parameters:**

- **\$key**

*void function GenericMySQLDB::close() [line 88]*

*void function GenericMySQLDB::delete(\$key) [line 83]*

#### **Function Parameters:**

- **\$key**

*void function GenericMySQLDB::fetch(\$key) [line 71]*

#### **Function Parameters:**

- **\$key**

*void function GenericMySQLDB::fetch\_all() [line 77]*

*void function GenericMySQLDB::getError() [line 51]*

*void function GenericMySQLDB::open() [line 41]*

*void function GenericMySQLDB::replace(\$key, \$value) [line 61]*

#### **Function Parameters:**

- **\$key**
- **\$value**

## **Class SessionDB**

*[line 33]*

### **Session database backend.**

WARNING: please note that PHP only allows one session at a time, so using this backend will break any applications that make use of sessions beneath.

- **Package phpPoA2**

- **Sub-Package** GenericDatabaseHandlers

**SessionDB::\$session\_name**

*mixed* = "session\_db" [[line 35](#)]

- **Access** protected

*void* function SessionDB::check(\$key) [[line 41](#)]

**Function Parameters:**

- **\$key**

- **Access** public

*void* function SessionDB::close() [[line 99](#)]

- **Access** public

*void* function SessionDB::delete(\$key) [[line 83](#)]

**Function Parameters:**

- **\$key**

- **Access** public

*void* function SessionDB::fetch(\$key) [*line* [63](#)]

***Function Parameters:***

- **\$key**
- **Access** public

*void* function SessionDB::fetch\_all() [*line* [73](#)]

- **Access** public

*void* function SessionDB::open() [*line* [37](#)]

- **Access** public

*void* function SessionDB::replace(\$key, \$value) [*line* [52](#)]

***Function Parameters:***

- **\$key**
- **\$value**
- **Access** public

# messages-en\_EN.php

- **Package** phpPoA2
- **Sub-Package** Internationalization
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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## \$messages

```
array = array(
'fatal-error'      => 'Fatal error',
'error-desc'       => 'There was an unexpected error. Please contact the administrator and specify
the session identifier and backtrace as shown below.',
'error-message'    => 'Error message',
'session-id'       => 'Session identifier',
'backtrace'        => 'Backtrace',

'authenticating-via' => 'Authenticating via the "%s" engine.',
'authorize-user-via' => 'Authorizing user "%s" via the
"%s" engine.',
'query-authz'      => 'Querying for authorization with all available engines.',
'query-authz-via'  => 'Querying for authorization with "%s"',
'authz-engine-err' => 'Cannot run unknown authorization engine "%s", check
your configuration file.',
'authn-engine-err' => 'No authentication engine found, check your configuration file.',
'check-authn-status' => 'Checking current authentication status via the %s engine.',
'invalid-config'   => 'Invalid configuration object.',
'config-not-found' => 'Cannot configure PoA, configuration file "%s" not
```

```

found.',
'config-err-php'      => 'Cannot configure PoA, "{$%1$s}" or
"{$%1$s}[%2$s]" not set.',
'config-err-ini'      => 'Cannot configure PoA, "{$%1$s}" section not found.',
'config-param-err'    => 'Cannot configure PoA, "{$%1$s}" param not found.',
'cannot-open-log'     => 'Cannot open log file "{$%1$s}".',
'cannot-write-log'    => 'Cannot write log file "{$%1$s}".',
'class-not-found'      => 'Cannot find class "{$%1$s}".',
'authn-success'       => 'Successful authentication with the "{$%1$s}" engine.',
'authn-err'           => 'Authentication error.',
'authz-err'           => 'User "{$%1$s}" not authorized.',
'authz-expired'       => 'Authorization has expired for user "{$%1$s}".',
'authz-default-fallback'=> 'Cannot make any authorization decision, falling to default fallback.',
'valid-cookie'        => 'The cookie is valid',
'cookie-not-found'     => 'Cannot find cookie "{$%1$s}".',
'cookie-location-err' => 'Invalid cookie location: "{$%1$s}".',
'cookie-service-err'  => 'Service ID "{$%1$s}" does not match for cookie, should be
"{$%1$s}".',
'cookie-expired-err'  => 'Expired cookie.',
'cookie-rejected-err' => 'Assertion matches rejection cookie filter "{$%1$s}".',
'cannot-set-cookie'   => 'Cannot set cookie. Please check no output was already sent to the
browser.',
'empty-assertion-err' => 'Empty assertion found in cookie "{$%1$s}".',
'empty-assertion'     => 'Empty assertion found in response.',
'pubkey-error'        => 'Cannot read public key from file "{$%1$s}".',
'cannot-decrypt'      => 'Cannot decrypt response, please check AS/GPoA public key.',
'valid-response'      => 'AS/GPoA response authenticates assertion "{$%1$s}".',
'expired-response'    => 'AS/GPoA response is expired.',
'unknown-request'     => 'AS/GPoA response received for an unknown request.',
'req-db-purged'        => 'Purged %d outdated requests from the database.',
'redirecting'         => 'Redirecting the user to "{$%1$s}".',
'cannot-redirect'     => 'Cannot redirect the user.',
'cannot-save-request' => 'Cannot save the original request.',
'cannot-open-req-db'  => 'Cannot open request database.',
'cannot-open-authz-db'=> 'Cannot open authorized database.',
'cannot-open-inv-db'  => 'Cannot open invitations database.',
'cannot-fetch-key'    => 'Cannot find database key "{$%1$s}".',
'cannot-del-key'      => 'Cannot delete database key "{$%1$s}".',
'as-id-error'         => 'Authentication Server identifier "{$%1$s}" does not match with
expected "{$%1$s}".',
'continue'           => 'Continue',
'source-ip-allowed'   => 'The source IP "{$%1$s}" matches allowed filter
"{$%1$s}".',
'source-ip-denied'    => 'The source IP "{$%1$s}" matches denial filter
"{$%1$s}".',
'invalid-hook'        => 'Trying to set hook "{$%1$s}" with an invalid function or
method.',
'running-hook'        => 'Running hook "{$%1$s}" for "{$%1$s}".',
'add-hook'           => 'Adding hook "{$%1$s}" for "{$%1$s}".',
'remove-hook'         => 'Removing hook "{$%1$s}" for "{$%1$s}".',
'hook-error'          => 'Invalid hook "{$%1$s}".',
'allowed-pattern-match'=> 'Query "{$%1$s}" matches the allowed pattern
"{$%1$s}".',
'denied-pattern-match'=> 'Query "{$%1$s}" matches the denial pattern
"{$%1$s}".',
'allowed-attr-match'  => 'The following user attributes are allowed: [%s].',
'denied-attr-match'   => 'The following user attributes are denied: [%s].',
'invite-non-existent' => 'Cannot find invitation with reference "{$%1$s}".',
'missing-attrs'       => 'None of the mandatory attributes were found.'

```

```

'missing-mail-attr'    => 'Cannot find "%s" attribute, e-mail verification failed.',
'mail-attr-err'       => 'Email verification attribute unset or empty, verification failed.',
'mail-attr-alg-err'   => 'Cannot extract the algorithm from the attribute "%s" with
value "%s";',
'mail-attr-val-err'   => 'Cannot extract the e-mail verification string from the attribute
"%s" with value "%s";',
'mail-verify-err'     => 'Cannot verify e-mail "%s"; computed value
"%s" does not match with the one received "%s";',
'cannot-authorize'    => 'Cannot authorize user "%s";',
'cannot-del-invite'   => 'Cannot remove invite for user "%s" with reference
"%s";',
'invite-sent-to'      => 'Invite sent to address "%s";',
'user-authorized'     => 'User "%s" is now authorized.',
'user-authz-ok'       => 'User "%s" is authorized.',
'user-authz-err'      => 'User "%s" is not authorized.',
'user-already-authz'  => 'User "%s" is already authorized.',
'slo-conf-error'      => 'Cannot perform single logout, please review configuration.',
'already-logged-out'  => 'User was not authenticated.',
'local-logout-success' => 'User was successfully logged out.',
'slo-logout'         => 'Single logout requested.',
'slo-requested'       => 'User requested single logout.',
) [line 40]

```

**An array with all the internationalized messages used by phpPoA2.**

- **Name** \$messages

# messages-es\_ES.php

- **Package** phpPoA2
- **Sub-Package** Internationalization
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
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# AuthorizedDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# AuthorizedDBADB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# InviteAuthzEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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```
AUTHORIZED_DBA = 'AuthorizedDBADB' [line 32]
AUTHORIZED_MYSQL = 'AuthorizedMySQLDB' [line 33]
AUTHORIZED_SESSION = 'AuthorizedSessionDB' [line 34]
INVITES_BEFORE_AUTHORIZATION = "INVITES_BEFORE_AUTHORIZATION" [line 48]
```

**This hook is executed right before it is checked whether the user was invited or not to continue with authorization.**

It can be used to trick the engine to believe the user was previously invited (and therefore forcing authorization). The hook receives a boolean parameter representing whether the referenced invitation was found or not.

```
function invitesBeforeAuthorization(&$invite_exists);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

```
INVITES_DBA = 'InviteDBADB' [line 29]
```

**Supported database types.**

```
INVITES_MYSQL = 'InviteMySQLDB' [line 30]  
INVITES_SESSION = 'InviteSessionDB' [line 31]
```

# InviteConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# InviteDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# InviteDBADB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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## papi1.5-invite-authz.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#)*[line 10]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

## Class AuthorizedDB

*[line 31]*

Generic interface for a PAPI request database.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine

*void* function AuthorizedDB::replace\_authorization(\$alias, \$attributes, \$email, \$expires) [[line 33](#)]

**Function Parameters:**

- **\$alias**
- **\$attributes**
- **\$email**
- **\$expires**

- **Access** public

## Class AuthorizedDBADB

[[line 31](#)]

**Authorization lists binding to a Berkeley DB backend.**

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine

### AuthorizedDBADB::\$authorized

*mixed* = [[line 33](#)]

- **Access** protected



## AuthorizedDBADB::\$mandatory\_options

*mixed* = array("AuthorizedDBFile") [*line 34*]

- **Access** protected

*void* function AuthorizedDBADB::fetch(\$key) [*line 51*]

### **Function Parameters:**

- **\$key**

- **Access** public

*void* function AuthorizedDBADB::fetch\_all() [*line 61*]

- **Access** public

*void* function AuthorizedDBADB::open() [*line 36*]

- **Access** public

*void* function AuthorizedDBADB::replace\_authorization(\$alias, \$attributes, \$email, \$expires) [*line 41*]

### **Function Parameters:**

- **\$alias**
- **\$attributes**
- **\$email**
- **\$expires**

- **Access** public

## Class InviteAuthzEngine

[line 55]

Invitation based authorization engine.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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**InviteAuthzEngine::\$authz\_db**

*mixed* = [line 57]

- **Access** protected

#### InviteAuthzEngine::\$invites\_db

*mixed* = [line [58](#)]

- **Access** protected

#### InviteAuthzEngine::\$valid\_hooks

*mixed* = array(INVITES\_BEFORE\_AUTHORIZATION) [line [59](#)]

- **Access** protected

*boolean* function InviteAuthzEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [line [164](#)]

#### **Function Parameters:**

- *user* **\$user**
- *attrs* **\$attrs**
- *ref* **\$ref**
- *expires* **\$expires**

**Authorize the specified user.**

- **Access** public

*void* function InviteAuthzEngine::configure(\$file, \$section) [[line 66](#)]

**Function Parameters:**

- *file* **\$file** The configuration file.
- *section* **\$section** The section of the configuration file to use.

**Configure the authorization engine.**

- **Access** public

*boolean* function InviteAuthzEngine::emailVerify(\$mail, \$attrs) [[line 341](#)]

**Function Parameters:**

- *mail* **\$mail** The e-mail of the user.
- *attrs* **\$attrs** The array of attributes of the user.

**Perform e-mail verification for the current user according to the configuration for this site.**

- **Access** protected

*void* function InviteAuthzEngine::finish(\$value) [[line 389](#)]

**Function Parameters:**

- *value* **\$value** The value that must be returned. @return mixed The first param.

**Close databases and return the same value received as a parameter.**

- **Access** protected

*array* function InviteAuthzEngine::getAuthorizedList() [[line 131](#)]

**Get a list of all authorized users.**

- **Access** public

*array* function InviteAuthzEngine::getPendingInvites() [[line 146](#)]

**Get a list of all pending invitations.**

- **Access** public

*boolean* function InviteAuthzEngine::invite(\$mail, [\$expires = 0]) [[line 287](#)]

**Function Parameters:**

- *mail* **\$mail** The e-mail of the user.
- *expires* **\$expires** The time (POSIX) when authorization will expire. Use 0 if authorization should never expire. Defaults to 0.

**Send an invitation to an e-mail address (that is, send an e-mail to that address with instructions on how to get authorized and an URL to follow).**

- **Access** public

*boolean* function InviteAuthzEngine::isAuthorized(\$user, \$attrs) [[line 88](#)]

**Function Parameters:**

- *user* **\$user** The name of the user to check authorization for.
- *attrs* **\$attrs** The attributes of the user to match his identity.

**Check if the specified user is authorized with the given attributes.**

- **Access** public

*boolean* function InviteAuthzEngine::removeInvite(\$ref) [*line* [323](#)]

**Function Parameters:**

- *ref* **\$ref** The reference to the invite to remove.

**Remove an invitation from the database.**

- **Access** public

*boolean* function InviteAuthzEngine::revoke(\$mail) [*line* [255](#)]

**Function Parameters:**

- **\$mail**

**Revoke authorization for the specified user.**

- **Access** public

# Class InviteConfigurator

[line 31]

Configurator for the Invitation based authorization engine.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
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## InviteConfigurator::\$mandatory\_options

```
mixed = array('InvitesDBType',  
              'AuthorizedDBType',  
              'AdminEmail',  
              'InviteURL',  
              'InviteText',  
              'InviteSubject',  
              'UniqueAttributes') [line 33]
```

- **Access** protected

*void* function InviteConfigurator::doEmailVerify() [*line* [113](#)]

- **Access** public

*string* function InviteConfigurator::getAdminEmail() [*line* [45](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getAuthorizedDBFile() [*line* [188](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getAuthorizedDBHost() [*line* [196](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getAuthorizedDBName() [*line* [220](#)]

### **Returns**



- **Access** public

*string* function InviteConfigurator::getAuthorizedDBPassword() [[line 212](#)]

### **Returns**

- **Access** public

*integer* function InviteConfigurator::getAuthorizedDBType() [[line 180](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getAuthorizedDBUser() [[line 204](#)]

### **Returns**

- **Access** public

*void* function InviteConfigurator::getEmailVerifyAlgRegEx() [[line 102](#)]

- **Access** public

*void* function InviteConfigurator::getEmailVerifyAttribute() [[line 80](#)]

- **Access** public

*void* function InviteConfigurator::getEmailVerifyRegEx() [*line* [91](#)]

- **Access** public

*string* function InviteConfigurator::getInvitesDBFile() [*line* [140](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getInvitesDBHost() [*line* [148](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getInvitesDBName() [*line* [172](#)]

### **Returns**

- **Access** public

*string* function InviteConfigurator::getInvitesDBPassword() [*line* [164](#)]

### **Returns**

- **Access** public

*integer* function InviteConfigurator::getInvitesDBType() [[line 132](#)]

### Returns

- **Access** public

*string* function InviteConfigurator::getInvitesDBUser() [[line 156](#)]

### Returns

- **Access** public

*string* function InviteConfigurator::getInviteSubject() [[line 61](#)]

### Returns

- **Access** public

*string* function InviteConfigurator::getInviteText() [[line 53](#)]

### Returns

- **Access** public

*string* function InviteConfigurator::getInviteURL() [[line 124](#)]

### Returns

- **Access** public

*array* function InviteConfigurator::getUniqueAttributes() [*line* [69](#)]

### Returns

- **Access** public

## Class InviteDB

[*line* [31](#)]

**Generic interface for a database of invites.**

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine

*void* function InviteDB::replace\_invite(\$key, \$email, \$expires) [*line* [33](#)]

### **Function Parameters:**

- **\$key**
- **\$email**
- **\$expires**

- **Access** public

## Class InviteDBADB

*[line [31](#)]*

Invites binding to a Berkeley DB backend.

- **Package** phpPoA2
- **Sub-Package** InviteAuthorizationEngine

**InviteDBADB::\$invite**

*mixed = [line [33](#)]*

- **Access** protected

**InviteDBADB::\$mandatory\_options**

*mixed = array("InvitesDBFile") [line [34](#)]*

- **Access** protected

*void function InviteDBADB::fetch(\$key) [line [49](#)]*

**Function Parameters:**

- **\$key**

- **Access** public

*void* function InviteDBADB::fetch\_all() [*line* [59](#)]

- **Access** public

*void* function InviteDBADB::open() [*line* [36](#)]

- **Access** public

*void* function InviteDBADB::replace\_invite(\$key, \$email, \$expires) [*line* [41](#)]

***Function Parameters:***

- **\$key**
- **\$email**
- **\$expires**

- **Access** public

# PAPIAuthnEngine.php

- **Package** phpPoA2

ATTR\_SEPARATOR = "," *[line 31]*

**Default assertion delimiters for standard PAPI 1.5 protocol.**

NAMEVALUE\_SEPARATOR = "=" *[line 33]*

NS\_PAPI\_ATTRIBUTES = 'urn:mace:rediris.es:papi:attributes' *[line 46]*

NS\_PAPI\_PROTOCOL = 'urn:mace:rediris.es:papi:protocol' *[line 45]*

**Supported namespaces for attributes.**

PAPI\_ATTRIBUTE\_PARSER = "PAPI\_ATTRIBUTE\_PARSER" *[line 105]*

**This hook is executed when returning the attributes found for a user with `getAttributes()` method. It receives a string with the attributes and the array that results of processing the string. Functions for this hook must be defined like this:**  
function attributeParser(\$assertion, &\$attributes);

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

PAPI\_CLEAN\_URL = "PAPI\_CLEAN\_URL" *[line 94]*

**This hook is executed when a valid response is found from the AS/GPoA and the engine is about**

to end the authentication result. It receives a boolean value that determines if the URL should be cleaned by means of a redirection to the initial URL. Functions for this hook must be defined like this:

function cleanURLHook(&\$clean);

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

PAPI\_DBA = 'PAPIDBADB' *[line 38]*

**Supported database types.**

PAPI\_MYSQL = 'PAPIMySQLDB' *[line 39]*

PAPI\_REDIRECT\_URL\_FINISH = "PAPI\_REDIRECT\_URL\_FINISH" *[line 71]*

**This hook is executed at the end of the method that returns the URL where to redirect a user.**

It can be used to alter parameters in the URL. The hook receives an array of parameters which should be directly modified. Functions for this hook must be defined like this:

```
function redirectURLFinishHook(&$params);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

```
PAPI_RESTORE_ORIGINAL_REQUEST = "PAPI_RESTORE_ORIGINAL_REQUEST" [line 82]
```

**This hook is executed when a valid response is found from the AS/GPoA and the original request of the user is about to be restored. It receives an array with the main PHP global variables of the original context. Functions for this hook must be defined like this:**

```
function restoreOriginalRequestHook(&$env);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

```
PAPI_SESSION = 'PAPISessionDB' [line 40]
```

```
PROTO_ATTR_AS_ID = '__asid' [line 53]
```

```
PROTO_ATTR_EXPIRE_TIME = '__expiretime' [line 55]
```

```
PROTO_ATTR_KEY = '__key' [line 54]
```

```
PROTO_ATTR_PREFIX = '_papi_' [line 52]
```

**Prefix for operational attributes inside the protocol and special attributes names.**

```
REQUEST_LIFETIME = 300 [line 60]
```

**Default timeout for stored requests.**

```
require_once dirname(__FILE__)."/crypt.php" [line 26]
```

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
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VALUE\_SEPARATOR = "|" *[line 32]*

# PAPIConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# PAPIDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# PAPIDBADB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
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# PAPIMySQLDB.php

- **Package** phpPoA2

PAPI\_DB\_TABLE = 'requests' *[line 26]*

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es) >
- **Version** 2.0
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# PAPISessionDB.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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## papi1.5-authn-attr.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#)*[line 10]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

# papi1.5-customattr.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

*void* function handler(\$assertion, &\$attributes) [*line 20*]

**Function Parameters:**

- **\$assertion**
- **&\$attributes**

include ["./PoA.php"](#) [*line 10*]

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)



## papi1.5-papiopoa-hook.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

*void function hook(&\$params) [line [14](#)]*

***Function Parameters:***

- **&\$params**

*include ["./PoA.php"](#) [line [10](#)]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

## Class AttributeHandler

*[line [25](#)]*

- **Package** phpPoA2

- **Sub-Package** PAPIAuthenticationEngine

*void function* AttributeHandler::handle(\$assertion, &\$attributes) [*line* [27](#)]

**Function Parameters:**

- **\$assertion**
- **&\$attributes**

- **Access** public

## Class Example

[*line* [20](#)]

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

*void function* Example::hook(&\$clean) [*line* [21](#)]

**Function Parameters:**

- **&\$clean**

- **Access** public

# Class PAPIAuthnEngine

[line 112]

Authentication engine for the PAPI 1.5 protocol.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

## PAPIAuthnEngine::\$assertion

*mixed* = [line 114]

- **Access** protected

## PAPIAuthnEngine::\$as\_id

*mixed* = [line 118]

- **Access** protected

## PAPIAuthnEngine::\$attributes

*mixed* = [line 117]

- **Access** protected

## PAPIAuthnEngine::\$cfg

*mixed* = [line 125]

- **Access** protected

#### **PAPIAuthnEngine::\$clean\_url**

*mixed* = true [line 126]

- **Access** protected

#### **PAPIAuthnEngine::\$cookie\_name**

*mixed* = "PAPILcook\_" [line 128]

- **Access** protected

#### **PAPIAuthnEngine::\$db**

*mixed* = [line 123]

- **Access** protected

#### **PAPIAuthnEngine::\$enforcing**

*mixed* = true [line 129]

- **Access** protected

### **PAPIAuthnEngine::\$expiration\_time**

*mixed = false [line 116]*

- **Access** protected

### **PAPIAuthnEngine::\$global\_expire\_time**

*mixed = [line 122]*

- **Access** protected

### **PAPIAuthnEngine::\$id**

*mixed = [line 124]*

- **Access** protected

### **PAPIAuthnEngine::\$key**

*mixed = [line 119]*

- **Access** protected

### **PAPIAuthnEngine::\$lkey**

*mixed = [line 120]*

- **Access** protected

### **PAPIAuthnEngine::\$opoa**

*mixed* = "http" [*line 130*]

- **Access** protected

### **PAPIAuthnEngine::\$pkey**

*mixed* = [*line 121*]

- **Access** protected

### **PAPIAuthnEngine::\$skip\_redirection**

*mixed* = false [*line 127*]

- **Access** protected

### **PAPIAuthnEngine::\$status**

*mixed* = [*line 115*]

- **Access** protected

### **PAPIAuthnEngine::\$valid\_hooks**

*mixed* = array(PAPI\_REDIRECT\_URL\_FINISH,  
PAPI\_RESTORE\_ORIGINAL\_REQUEST,  
PAPI\_CLEAN\_URL,  
PAPI\_ATTRIBUTE\_PARSER) [*line 131*]

- **Access** protected

*void function* PAPIAuthnEngine::attributeQuery(\$name) [*line 414*]

**Function Parameters:**

- **\$name**

- **Access** protected

*void function* PAPIAuthnEngine::authenticate() [*line 168*]

- **Access** public

*void function* PAPIAuthnEngine::configure(\$file, \$section) [*line 136*]

**Function Parameters:**

- **\$file**
- **\$section**

- **Access** public

*true function* PAPIAuthnEngine::deleteCookie() [*line 472*]

**Delete the current cookie, if any.**

- **Access** protected

*boolean* function PAPIAuthnEngine::deleteRequest(\$key) [*line 754*]

**Function Parameters:**

- **key \$key** The key that identifies the request.

**Delete a request from the request database.**

- **Access** protected

*void* function PAPIAuthnEngine::getAttribute(\$name, [\$namespace = NS\_PAPI\_ATTRIBUTES]) [*line 349*]

**Function Parameters:**

- **\$name**
- **\$namespace**

- **Access** public

*void* function PAPIAuthnEngine::getAttributes() [*line 321*]

- **Access** public

*string* function PAPIAuthnEngine::getNewCookie() [*line 779*]

**Generate a new cookie for the current user.**



- **Access** protected

*string* function PAPIAuthnEngine::getRedirectLocation() [*line 614*]

**Retrieve the URL where to redirect a user and store his request.**

- **Access** protected

*string* function PAPIAuthnEngine::getSingleLogoutLocation() [*line 574*]

**Retrieve the URL where to redirect a user to perform a single logout.**

- **Access** protected

*string* function PAPIAuthnEngine::getSingleLogoutResponseLocation() [*line 598*]

**Retrieve the URL where to redirect a user once he has successfully logged out.**

- **Access** protected

*void* function PAPIAuthnEngine::isAuthenticated() [*line 298*]

- **Access** public

*boolean* function PAPIAuthnEngine::isSafe() [*line 791*]

**Determines if it's safe to assume the user as authenticated.**

- **Access** protected

*hash function PAPIAuthnEngine::loadRequest(\$key) [line 710]*

***Function Parameters:***

- *key* **\$key** The key that identifies the request.

**Load a request from the request database.**

- **Access** protected

*void function PAPIAuthnEngine::logout([\$slo = false]) [line 379]*

***Function Parameters:***

- **\$slo**

- **Access** public

*void function PAPIAuthnEngine::redirect([\$location = ""]) [line 554]*

***Function Parameters:***

- *location* **\$location** If set, the location where to redirect the user. If not, defaults are used.

**Redirect user browser to the appropriate URL for authentication.**

WARNING: This method ends execution.

- **Access** protected

*string/boolean* function PAPIAuthnEngine::saveRequest(\$key, \$hli) [*line 682*]

**Function Parameters:**

- *key* **\$key** The key identifier for this request.
- *hli* **\$hli** The home locator identifier that should be used for this request.

**Save a request to the request database. The request includes: \$\_REQUEST, \$\_GET, \$\_POST, \$\_SERVER['QUERY\_STRING'], \$\_SERVER['REQUEST\_METHOD'] and php://input.**

- **Access** protected

*boolean* function PAPIAuthnEngine::testCookie([\$name = ""]) [*line 426*]

**Function Parameters:**

- *cookie* **\$name** The cookie.

**Check if a cookie is valid.**

- **Access** protected

*boolean* function PAPIAuthnEngine::testResponse(\$data, \$pubkey) [*line 494*]

**Function Parameters:**

- *data* **\$data** The data received.
- *key* **\$pubkey** The public key of the AS/GPoA.

Check the response from the AS/GPoA.

- **Access** protected

## Class PAPIConfigurator

[line [31](#)]

Configurator class for the PAPI Authentication Engine.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

### PAPIConfigurator::\$mandatory\_options

```
mixed = array('Location',  
              'CookieDomain',  
              'LKey',  
              'PubKeyFile',  
              'CookieTimeout',  
              'DBType',  
              'RedirectURL',  
              'RedirectType') [line 33]
```

- **Access** protected

*string* function PAPIConfigurator::getCookieDomain() [line [54](#)]

- **Access** public

*integer* function PAPIConfigurator::getCookieTimeout() [*line* [78](#)]

- **Access** public

*string* function PAPIConfigurator::getDBFile() [*line* [94](#)]

- **Access** public

*string* function PAPIConfigurator::getDBHost() [*line* [102](#)]

- **Access** public

*string* function PAPIConfigurator::getDBName() [*line* [126](#)]

- **Access** public

*string* function PAPIConfigurator::getDBPassword() [*line* [118](#)]

- **Access** public

*string* function PAPIConfigurator::getDBPrefix() [*line* [134](#)]

- **Access** public

*integer* function PAPIConfigurator::getDBType() [[line 86](#)]

- **Access** public

*string* function PAPIConfigurator::getDBUser() [[line 110](#)]

- **Access** public

*string* function PAPIConfigurator::getFriendlyName() [[line 185](#)]

- **Access** public

*string* function PAPIConfigurator::getHomeLocatorID() [[line 169](#)]

- **Access** public

*string* function PAPIConfigurator::getID() [[line 177](#)]

- **Access** public

*string* function PAPIConfigurator::getLKey() [[line 62](#)]

- **Access** public

*string* function PAPIConfigurator::getLocation() [[line 46](#)]

- **Access** public

*string* function PAPIConfigurator::getLogoutURL() [[line 193](#)]

- **Access** public

*string* function PAPIConfigurator::getPubKeyFile() [[line 70](#)]

- **Access** public

*integer* function PAPIConfigurator::getRedirectType() [[line 150](#)]

- **Access** public

*string* function PAPIConfigurator::getRedirectURL() [[line 142](#)]

- **Access** public

*seconds* function PAPIConfigurator::getRequestLifetime() [[line 201](#)]

- **Access** public

## Class PAPIDB

[[line 31](#)]

## Generic interface for a PAPI request database.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

the function PAPIDB::purge(\$gap) [[line 41](#)]

### **Function Parameters:**

- *gap* **\$gap** The maximum gap to consider a request outdated, between the time it was stored and the current time.

## Purge the database of outdated requests.

- **Access** public

void function PAPIDB::replaceContents(\$key, \$get, \$post, \$request, \$query, \$method, \$input, \$hli) [[line 33](#)]

### **Function Parameters:**

- **\$key**
- **\$get**
- **\$post**
- **\$request**
- **\$query**
- **\$method**
- **\$input**
- **\$hli**



- **Access** public

## Class PAPIDBADB

[line [31](#)]

**PAPI binding to a Berkeley DB backend.**

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

**PAPIDBADB::\$context**

*mixed* = [line [33](#)]

- **Access** protected

*void* function PAPIDBADB::fetch(\$key) [line [50](#)]

**Function Parameters:**

- **\$key**

- **Access** public

`void` function PAPIDBADB::purge(\$gap) [*line* [60](#)]

### Function Parameters:

- **\$gap**
- **Access** public

```
void function PAPIDBADB::replaceContents($key, $get, $post, $request, $query, $method, $input, $hli) [line 35]
```

### Function Parameters:

- \$key
  - \$get
  - \$post
  - \$request
  - \$query
  - \$method
  - \$input
  - \$hli
- Access public

## Class PAPIMySQLDB

## MySQL database frontend for the PAPI Authentication Engine.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

#### **PAPIMySQLDB::\$context**

*mixed* = [line 35]

- **Access** protected

#### **PAPIMySQLDB::\$prefix**

*mixed* = "papi\_" [line 36]

- **Access** protected

Constructor *void* function PAPIMySQLDB::\_\_construct(\$cfg) [line 38]

#### **Function Parameters:**

- **\$cfg**

- **Access** public

*void* function PAPIMySQLDB::fetch(\$key) [line 76]

#### **Function Parameters:**

- **\$key**

- **Access** public

*void function PAPIMySQLDB::replaceContents(\$key, \$get, \$post, \$request, \$query, \$method, \$input, \$hli) [line 53]*

**Function Parameters:**

- **\$key**
- **\$get**
- **\$post**
- **\$request**
- **\$query**
- **\$method**
- **\$input**
- **\$hli**

- **Access** public

## Class PAPISessionDB

*[line [33](#)]*

### **PAPI binding to a PHP Session DB backend.**

WARNING: please note that PHP only allows one session at a time, so using this backend will break any applications that make use of sessions beneath.

- **Package** phpPoA2
- **Sub-Package** PAPIAuthenticationEngine

## PAPISessionDB::\$context

*mixed* = [[line 35](#)]

- **Access** protected

*void* function PAPISessionDB::fetch(\$key) [[line 48](#)]

### **Function Parameters:**

- **\$key**

- **Access** public

*void* function PAPISessionDB::replaceContents(\$key, \$get, \$post, \$request, \$query, \$method, \$input) [[line 37](#)]

### **Function Parameters:**

- **\$key**
- **\$get**
- **\$post**
- **\$request**
- **\$query**
- **\$method**
- **\$input**

- **Access** public

# QueryFilterAuthzEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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QUERY\_BEFORE\_FILTERS = "QUERY\_BEFORE\_FILTERS" [*line 37*]

**This hook is executed right after retrieving the current URI, the params (both GET and POST) and the arrays of allowed and denied patterns that will be checked immediately.**

It can be used to alter parameters and the URL, and also to configure the filters on runtime. The hook receives the URI string, an array of parameters, the allowed and the denied patterns. Functions for this hook must be defined like this:

```
function queryBeforeFilterHook(&$uri, &$params, &$allowed, &$denied);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

# QueryFilterConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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# papi1.5-query-authz.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** QueryFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#) [line 10]

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

void function queryHook(&\$uri, &\$params, &\$allowed, &\$denied) [line 17]

**Function Parameters:**

- **&\$uri**
- **&\$params**
- **&\$allowed**
- **&\$denied**

# Class QueryFilterAuthzEngine

[line 44]

Authorization engine that works by checking the query string of the request.

- **Package** phpPoA2
- **Sub-Package** QueryFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
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## QueryFilterAuthzEngine::\$valid\_hooks

*mixed* = array(QUERY\_BEFORE\_FILTERS) [line 46]

- **Access** protected

*void* function QueryFilterAuthzEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [line 111]

### Function Parameters:

- **\$user**
- **\$attrs**
- **\$ref**

- **\$expires**

- **Access** public

*void* function QueryFilterAuthzEngine::getAuthorizedList() [*line* [102](#)]

- **Access** public

*void* function QueryFilterAuthzEngine::isAuthorized(\$user, \$attrs) [*line* [48](#)]

**Function Parameters:**

- **\$user**
- **\$attrs**

- **Access** public

*void* function QueryFilterAuthzEngine::revoke(\$mail) [*line* [115](#)]

**Function Parameters:**

- **\$mail**

- **Access** public

# Class QueryFilterConfigurator

[line 31]

Configurator for the query filter authorization engine.

- **Package** phpPoA2
- **Sub-Package** QueryFilterAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## QueryFilterConfigurator::\$mandatory\_options

*mixed* = array("Allowed", "Denied") [line 33]

- **Access** protected

*array* function QueryFilterConfigurator::getAllowedPatterns() [line 39]

**Returns the patterns that match allowed URIs or query parameters.**

- **Access** public

*array* function QueryFilterConfigurator::getDeniedPatterns() [*line* [47](#)]

**Returns the patterns that match denied URIs or query parameters.**

- **Access** public

# SourceIPAddrAuthzEngine.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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SOURCEADDR\_BEFORE\_FILTERS = "SOURCEADDR\_BEFORE\_FILTERS" [*line 37*]

**This hook is executed right after retrieving source address and the arrays of allowed and denied patterns that will be checked immediately.**

It can be used to alter the source address, and also to configure the filters on runtime. The hook receives the source IP address, the allowed and the denied patterns. Functions for this hook must be defined like this:

```
function ipBeforeFilterHook(&$ipaddr, &$allowed, &$denied);
```

Please bear in mind that hooks must return TRUE or they'll keep other hooks from executing.

# SourceIPAddrConfigurator.php

- **Package** phpPoA2
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## papi1.5-ip-authz.php

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Package** phpPoA2
- **Sub-Package** SourceIPAddrAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

include ["./PoA.php"](#) *[line 10]*

This is a sample file to demonstrate the functionality of the phpPoA2 package.

- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Filesource** [Source Code for this file](#)

*void* function ipHook(&\$ip, &\$allowed, &\$denied) *[line 14]*

**Function Parameters:**

- **&\$ip**
- **&\$allowed**
- **&\$denied**

**Class SourceIPAddrAuthzEngine**  
*[line 44]*



## Authorization engine that works by checking the source IP address of the request.

- **Package** phpPoA2
- **Sub-Package** SourceIPAddrAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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### SourceIPAddrAuthzEngine::\$valid\_hooks

*mixed* = array(SOURCEADDR\_BEFORE\_FILTERS) [*line* [46](#)]

- **Access** protected

*void* function SourceIPAddrAuthzEngine::authorize(\$user, \$attrs, \$ref, [\$expires = 0]) [*line* [128](#)]

#### **Function Parameters:**

- **\$user**
- **\$attrs**
- **\$ref**
- **\$expires**

- **Access** public

*void* function SourceIPAddrAuthzEngine::getAuthorizedList() [*line* [119](#)]

- **Access** public

*void* function SourceIPAddrAuthzEngine::isAuthorized(\$user, \$attrs) [*line* [48](#)]

***Function Parameters:***

- **\$user**
- **\$attrs**

- **Access** public

*void* function SourceIPAddrAuthzEngine::revoke(\$mail) [*line* [132](#)]

***Function Parameters:***

- **\$mail**

- **Access** public

# Class SourceIPAddrConfigurator

[line 31]

Configurator class for the Source IP Address Authorization Engine.

- **Package** phpPoA2
- **Sub-Package** SourceIPAddrAuthorizationEngine
- **Author** Jaime Perez < [jaime.perez@rediris.es](mailto:jaime.perez@rediris.es)>
- **Version** 2.0
- **Copyright** Copyright 2005-2010 RedIRIS, <http://www.rediris.es/>

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## SourceIPAddrConfigurator::\$mandatory\_options

*mixed* = array("AllowFrom", "DenyFrom") [line 33]

- **Access** protected

*array* function SourceIPAddrConfigurator::getAllowed() [line 39]

**Returns an array of IP addresses or networks that are authorized.**

- **Access** public

array function SourceIPAddrConfigurator::getDenied() [*line 47*]

**Returns an array of IP addresses or networks that are not authorized.**

- **Access** public

# Appendix A - Class Trees

Package phpPoA2

## AttributeHandler

- [AttributeHandler](#)

## AuthorizedDB

- [AuthorizedDB](#)

## Example

- [Example](#)

## GenericConfigurator

- [GenericConfigurator](#)
  - [AuthorizationConfigurator](#)
  - [AttributeFilterConfigurator](#)

- [InviteConfigurator](#)
- [QueryFilterConfigurator](#)
- [SourceIPAddrConfigurator](#)
- [PAPConfigurator](#)
- [PoAConfigurator](#)

## GenericDB

- [GenericDB](#)
  - [DBADB](#)
    - [AuthorizedDBADB](#)
    - [InviteDBADB](#)
    - [PAPIDBADB](#)
  - [GenericMySQLDB](#)
    - [PAPIMySQLDB](#)
  - [SessionDB](#)
    - [PAPISessionDB](#)

## GenericEngine

- [GenericEngine](#)
  - [AuthenticationEngine](#)
    - [PAPIAuthnEngine](#)
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    - [AttributeFilterAuthzEngine](#)
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## Hook

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## InviteDB

- [InviteDB](#)

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- [PAPIDB](#)

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  - [AutoPoA](#)
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## PoAEventHandler

- [PoAEventHandler](#)

## PoAException

- Exception
  - [PoAException](#)

## PoALog

- [PoALog](#)

# README

phpPoA 2.0

Contents of the distribution:

README	This file
GPL	Text of the GNU General Public License, applicable to all the software
LICENSE	Copyright information and short text of the license, including responsibility disclaimer
doc	Documentation for this distribution
lib	Auxiliary classes that implement most of the functionality that is shipped with this distribution
messages	Support files for message internationalization
samples	Sample usage files, including configuration
PoA.php	The main class of phpPoA2. Include only this file in your applications
PoAConfigurator.php	The main configuration class
PoAException.php	Generic phpPoA exception implementation
PoALog.php	Logging class
definitions.php	Useful constants
utils.php	Utility functions

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<a href="#">AttributeFilterConfigurator::\$mandatory_options</a>	0
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<a href="#">AttributeFilterConfigurator</a>	0
<i>Configurator for the Attribute Filter Authorization Engine.</i>	
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<a href="#">AttributeFilterAuthzEngine::\$valid_hooks</a>	0
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<a href="#">AuthenticationEngine</a>	0
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<i>Authorize the specified user.</i>	
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## L

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## O

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<a href="#">PAPIAuthnEngine::deleteCookie()</a>	0
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<a href="#">PAPIAuthnEngine::logout()</a>	0
<a href="#">PAPIAuthnEngine::isAuthenticated()</a>	0
<a href="#">PAPIAuthnEngine::isSafe()</a>	0
<i>Determines if it's safe to assume the user as authenticated.</i>	
<a href="#">PAPIAuthnEngine::loadRequest()</a>	0
<i>Load a request from the request database.</i>	
<a href="#">PAPIAuthnEngine::attributeQuery()</a>	0
<a href="#">PAPIAuthnEngine::\$valid_hooks</a>	0
<a href="#">PAPIAuthnEngine::\$clean_url</a>	0
<a href="#">PAPIAuthnEngine::\$cookie_name</a>	0
<a href="#">PAPIAuthnEngine::\$db</a>	0
<a href="#">PAPIAuthnEngine::\$cfg</a>	0
<a href="#">PAPIAuthnEngine::\$attributes</a>	0
<a href="#">PAPIAuthnEngine</a>	0

*Authentication engine for the PAPI 1.5 protocol.*

<a href="#">PAPIAuthnEngine::\$assertion</a>	0
<a href="#">PAPIAuthnEngine::\$as_id</a>	0
<a href="#">PAPIAuthnEngine::\$enforcing</a>	0
<a href="#">PAPIAuthnEngine::\$expiration_time</a>	0
<a href="#">PAPIAuthnEngine::\$pkey</a>	0
<a href="#">PAPIAuthnEngine::\$skip_redirection</a>	0
<a href="#">PAPIAuthnEngine::\$status</a>	0
<a href="#">PAPIAuthnEngine::\$opoa</a>	0
<a href="#">PAPIAuthnEngine::\$lkey</a>	0
<a href="#">PAPIAuthnEngine::\$global_expire_time</a>	0
<a href="#">PAPIAuthnEngine::\$id</a>	0
<a href="#">PAPIAuthnEngine::\$key</a>	0
<a href="#">PAPIConfigurator</a>	0

*Configurator class for the PAPI Authentication Engine.*

<a href="#">PAPIConfigurator::\$mandatory_options</a>	0
<a href="#">PAPIDBADB::purge()</a>	0
<a href="#">PAPIDBADB::replaceContents()</a>	0
<a href="#">PAPIMySQLDB</a>	0

*MySQL database frontend for the PAPI Authentication Engine.*

<a href="#">PAPIDBADB::fetch()</a>	0
<a href="#">PAPIDBADB::\$context</a>	0
<a href="#">PAPIDB::purge()</a>	0

*Purge the database of outdated requests.*

<a href="#">PAPIDB::replaceContents()</a>	0
<a href="#">PAPIDBADB</a>	0

*PAPI binding to a Berkeley DB backend.*

<a href="#">PAPIMySQLDB::\$context</a>	0
<a href="#">PAPIMySQLDB::\$prefix</a>	0
<a href="#">PAPISessionDB::replaceContents()</a>	0
<a href="#">papi1.5-query-authz.php</a>	0

*This is a sample file to demonstrate the functionality of the phpPoA2 package.*

<a href="#">papi1.5-ip-authz.php</a>	0
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*This is a sample file to demonstrate the functionality of the phpPoA2 package.*

<a href="#">PAPISessionDB::fetch()</a>	0
<a href="#">PAPISessionDB::\$context</a>	0
<a href="#">PAPIMySQLDB::fetch()</a>	0
<a href="#">PAPIMySQLDB::replaceContents()</a>	0
<a href="#">PAPISessionDB</a>	0

*PAPI binding to a PHP Session DB backend.*

<a href="#">PAPIDB</a>	0
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*Generic interface for a PAPI request database.*

<a href="#">PAPIConfigurator::getRequestLifetime()</a>	0
<a href="#">PAPIConfigurator::getDBPassword()</a>	0
<a href="#">PAPIConfigurator::getDBPrefix()</a>	0
<a href="#">PAPIConfigurator::getDBType()</a>	0
<a href="#">PAPIConfigurator::getDBName()</a>	0
<a href="#">PAPIConfigurator::getDBHost()</a>	0
<a href="#">PAPIConfigurator::getCookieDomain()</a>	0
<a href="#">PAPIConfigurator::getCookieTimeout()</a>	0
<a href="#">PAPIConfigurator::getDBFile()</a>	0
<a href="#">PAPIConfigurator::getDBUser()</a>	0
<a href="#">PAPIConfigurator::getFriendlyName()</a>	0



<a href="#">PAPIConfigurator::getPubKeyFile()</a>	0
<a href="#">PAPIConfigurator::getRedirectType()</a>	0
<a href="#">PAPIConfigurator::getRedirectURL()</a>	0
<a href="#">PAPIConfigurator::getLogoutURL()</a>	0
<a href="#">PAPIConfigurator::getLocation()</a>	0
<a href="#">PAPIConfigurator::getHomeLocatorID()</a>	0
<a href="#">PAPIConfigurator::getID()</a>	0
<a href="#">PAPIConfigurator::getLKey()</a>	0
<a href="#">papi1.5-papiopoa-hook.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">papi1.5-customattr.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PoA::getAuthorizationEngines()</a>	0
<i>Returns the authorization engines configured for the current PoA, or the one specified.</i>	
<a href="#">PoA::isAuthenticated()</a>	0
<i>Query the current status of the user in the federation.</i>	
<a href="#">PoA::isAuthorized()</a>	0
<i>Perform authorization for the a given subject.</i>	
<a href="#">PoA::getAttributes()</a>	0
<i>Retrieve the attributes provided by the user when logged in.</i>	
<a href="#">PoA::getAttribute()</a>	0
<i>Get the value (or values) of an attribute, if present.</i>	
<a href="#">PoA::authenticate()</a>	0
<i>Perform a federated login for the user.</i>	
<a href="#">PoA::authorize()</a>	0
<i>Authorize a given subject with the data retrieved from federated login.</i>	
<a href="#">PoA::clean()</a>	0
<a href="#">PoA::logout()</a>	0
<i>Remove the user's session and trigger a logout for the specified authentication protocol.</i>	
<a href="#">PoA::removeHook()</a>	0
<i>Remove a hook from the specified entry point of the available authentication or authorization engines.</i>	
<a href="#">PoAConfigurator::getAuthzEngineConfFile()</a>	0
<a href="#">PoAConfigurator::getAuthzEngines()</a>	0
<a href="#">PoAConfigurator::getInviteErrorURL()</a>	0
<a href="#">PoAConfigurator::getAuthnEngineConfFile()</a>	0
<a href="#">PoAConfigurator::getAuthnEngine()</a>	0
<a href="#">PoA::revoke()</a>	0
<i>Revoke authorization for a given subject identified by an e-mail.</i>	
<a href="#">PoAConfigurator</a>	0
<i>Main configurator for the phpPoA.</i>	
<a href="#">PoAConfigurator::\$mandatory_options</a>	0
<a href="#">PoA::addHook()</a>	0
<i>Attach a hook object to the appropriate entry point of the available authentication or authorization engines.</i>	
<a href="#">PoA::\$log</a>	0
<a href="#">PoAException.php</a>	0
<a href="#">PoALog.php</a>	0
<a href="#">papi1.5-slo-extra.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PoAEventHandler.php</a>	0

<a href="#">PoAConfigurator.php</a>	0
<a href="#">papi_openssl_decrypt()</a>	0
<a href="#">papi_openssl_encrypt()</a>	0
<a href="#">PoA.php</a>	0
<a href="#">papi1.5-slo.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PoA</a>	0
<i>Standard class that implements all the functionality of the phpPoA.</i>	
<a href="#">PoA::\$db_manager</a>	0
<a href="#">PoA::\$handler</a>	0
<a href="#">PoA::\$local_site</a>	0
<a href="#">PoA::\$cfg</a>	0
<a href="#">PoA::\$autoload</a>	0
<a href="#">PoA::\$attributes</a>	0
<a href="#">PoA::\$authn_engine</a>	0
<a href="#">PoA::\$authz_engines</a>	0
<a href="#">PoAConfigurator::getLanguage()</a>	0
<a href="#">PoAConfigurator::getLogFile()</a>	0
<a href="#">PAPI RESTORE ORIGINAL REQUEST</a>	0
<i>This hook is executed when a valid response is found from the AS/GPoA and the original request of the user is about to be restored. It receives an array with the main PHP global variables of the original context. Functions for this hook must be defined like this:</i>	
<a href="#">PAPI SESSION</a>	0
<a href="#">PROTO ATTR AS ID</a>	0
<a href="#">PAPI REDIRECT URL FINISH</a>	0
<i>This hook is executed at the end of the method that returns the URL where to redirect a user.</i>	
<a href="#">PAPI MYSQL</a>	0
<a href="#">PAPI ATTRIBUTE_PARSER</a>	0
<i>This hook is executed when returning the attributes found for a user with getAttributes() method. It receives a string with the attributes and the array that results of proccessing the string. Functions for this hook must be defined like this:</i>	
<a href="#">PAPI CLEAN URL</a>	0
<i>This hook is executed when a valid response is found from the AS/GPoA and the engine is about</i>	
<a href="#">PAPI DBA</a>	0
<i>Supported database types.</i>	
<a href="#">PROTO ATTR EXPIRE TIME</a>	0
<a href="#">PROTO ATTR KEY</a>	0
<a href="#">PAPI DB TABLE</a>	0
<a href="#">PAPISessionDB.php</a>	0
<a href="#">papi1.5-authn-attr.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PAPIMySQLDB.php</a>	0
<a href="#">PAPIDBADB.php</a>	0
<a href="#">PROTO ATTR PREFIX</a>	0
<i>Prefix for operational attributes inside the protocol and special attributes names.</i>	
<a href="#">PAPICConfigurator.php</a>	0
<a href="#">PAPIDB.php</a>	0
<a href="#">PAPIAuthnEngine.php</a>	0
<a href="#">papi1.5-invite-authz.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	

<a href="#">PoAEventHandler::abort()</a>	0
<i>Finish execution and print an error message with the current backtrace.</i>	
<a href="#">PoAEventHandler::autoloadHandler()</a>	0
<i>Override __autoload standard function to allow loading classes dinamically.</i>	
<a href="#">PoAEventHandler::errorHandler()</a>	0
<i>A generic error handler that logs the error message.</i>	
<a href="#">PoAEventHandler</a>	0
<i>Class to handle events inside the library.</i>	
<a href="#">PoAConfigurator::isDebug()</a>	0
<a href="#">PoAConfigurator::getLogLevel()</a>	0
<a href="#">PoAConfigurator::getNoAuthErrorURL()</a>	0
<a href="#">PoAConfigurator::getSystemErrorURL()</a>	0
<a href="#">PoAEventHandler::exceptionHandler()</a>	0
<i>A generic exception handler that logs the exception message.</i>	
<a href="#">PoAEventHandler::setDebug()</a>	0
<i>Set debugging mode.</i>	
<a href="#">PoALog::getLogLevel()</a>	0
<i>Get the current log level.</i>	
<a href="#">PoALog::write()</a>	0
<i>Write a message to the log file if the current log level allows it.</i>	
<a href="#">papi1.5-attr-authz.php</a>	0
<i>This is a sample file to demonstrate the functionality of the phpPoA2 package.</i>	
<a href="#">PoALog</a>	0
<i>A simple class to write log messages to a file.</i>	
<a href="#">PoAException::toString()</a>	0
<a href="#">PoAEventHandler::setLogger()</a>	0
<i>Set the logger.</i>	
<a href="#">PoAException</a>	0
<i>Exception handler class for the phpPoA.</i>	
<a href="#">PADDINGSIZE</a>	0

## Q

<a href="#">QueryFilterAuthzEngine::revoke()</a>	0
<a href="#">QueryFilterAuthzEngine::isAuthorized()</a>	0
<a href="#">QueryFilterConfigurator</a>	0
<i>Configurator for the query filter authorization engine.</i>	
<a href="#">QueryFilterConfigurator::\$mandatory_options</a>	0
<a href="#">QueryFilterConfigurator::getDeniedPatterns()</a>	0
<i>Returns the patterns that match denied URIs or query parameters.</i>	
<a href="#">QueryFilterConfigurator::getAllowedPatterns()</a>	0
<i>Returns the patterns that match allowed URIs or query parameters.</i>	
<a href="#">QueryFilterAuthzEngine::getAuthorizedList()</a>	0
<a href="#">QueryFilterAuthzEngine::authorize()</a>	0
<a href="#">QueryFilterConfigurator.php</a>	0
<a href="#">QUERY BEFORE FILTERS</a>	0
<i>This hook is executed right after retrieving the current URI, the params (both GET and POST) and the arrays of allowed and denied patterns that will be checked immediately.</i>	
<a href="#">queryHook()</a>	0
<a href="#">QueryFilterAuthzEngine</a>	0
<i>Authorization engine that works by checking the query string of the request.</i>	

<a href="#">QueryFilterAuthzEngine::\$valid_hooks</a>	0
<a href="#">QueryFilterAuthzEngine.php</a>	0

## R

<a href="#">README</a>	0
<a href="#">REQUEST_LIFETIME</a>	0
<i>Default timeout for stored requests.</i>	
<a href="#">ROOT</a>	0
<i>Authorized DB converter tool from phpPoA1 to phpPoA2.</i>	

## S

<a href="#">SourceIPAddrAuthzEngine::authorize()</a>	0
<a href="#">SourceIPAddrAuthzEngine::getAuthorizedList()</a>	0
<a href="#">SourceIPAddrAuthzEngine::\$valid_hooks</a>	0
<a href="#">SourceIPAddrAuthzEngine</a>	0
<i>Authorization engine that works by checking the source IP address of the request.</i>	
<a href="#">SourceIPAddrConfigurator.php</a>	0
<a href="#">SourceIPAddrAuthzEngine::isAuthorized()</a>	0
<a href="#">SourceIPAddrAuthzEngine::revoke()</a>	0
<a href="#">SourceIPAddrConfigurator::getDenied()</a>	0
<i>Returns an array of IP addresses or networks that are not authorized.</i>	
<a href="#">SourceIPAddrConfigurator::getAllowed()</a>	0
<i>Returns an array of IP addresses or networks that are authorized.</i>	
<a href="#">SourceIPAddrConfigurator::\$mandatory_options</a>	0
<a href="#">SourceIPAddrConfigurator</a>	0
<i>Configurator class for the Source IP Address Authorization Engine.</i>	
<a href="#">SOURCEADDR_BEFORE_FILTERS</a>	0
<i>This hook is executed right after retrieving source address and the arrays of allowed and denied patterns that will be checked immediately.</i>	
<a href="#">SourceIPAddrAuthzEngine.php</a>	0
<a href="#">SessionDB::check()</a>	0
<a href="#">SessionDB::\$session_name</a>	0
<a href="#">SessionDB</a>	0
<i>Session database backend.</i>	
<a href="#">SessionDB.php</a>	0
<a href="#">SessionDB::close()</a>	0
<a href="#">SessionDB::delete()</a>	0
<a href="#">SessionDB::replace()</a>	0
<a href="#">SessionDB::open()</a>	0
<a href="#">SessionDB::fetch_all()</a>	0
<a href="#">SessionDB::fetch()</a>	0
<a href="#">SYSTEM_ERR</a>	0
<i>A system related error.</i>	

## U

<a href="#">utils.php</a>	0
<a href="#">USER_ERR</a>	0

*An error triggered by the user.*

V

VALUE\_SEPARATOR . . . . . 0