

globus authz

2.2

Generated by Doxygen 1.6.1

Tue May 1 20:07:56 2012

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## 1 Module Index

### 1.1 Modules

Here is a list of all modules:

<b>GSI Authorization API</b>	<b>1</b>
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## 2 Module Documentation

### 2.1 GSI Authorization API

#### Initialize Handle

- globus\_result\_t **globus\_gsi\_authz\_handle\_init** (globus\_gsi\_authz\_handle\_t \*handle, const char \*service\_name, const gss\_ctx\_id\_t context, globus\_gsi\_authz\_cb\_t callback, void \*callback\_arg)

#### Authorization decision made here

- globus\_result\_t **globus\_gsi\_authorize** (globus\_gsi\_authz\_handle\_t handle, const void \*action, const void \*object, globus\_gsi\_authz\_cb\_t callback, void \*callback\_arg)

#### Destroy Handle

- globus\_result\_t **globus\_gsi\_authz\_handle\_destroy** (globus\_gsi\_authz\_handle\_t handle, globus\_gsi\_authz\_cb\_t callback, void \*callback\_arg)

#### Query for authorization identity

- globus\_result\_t **globus\_gsi\_authz\_get\_authorization\_identity** (globus\_gsi\_authz\_handle\_t handle, char \*\*identity\_ptr, globus\_gsi\_authz\_cb\_t callback, void \*callback\_arg)

## 2.1.1 Function Documentation

**2.1.1.1** `globus_result_t globus_gsi_authz_handle_init (globus_gsi_authz_handle_t * handle, const char * service_name, const gss_ctx_id_t context, globus_gsi_authz_cb_t callback, void * callback_arg)`

Initializes a handle.

### Parameters:

*handle* Pointer to the handle that is to be initialized  
*service\_name* Service to authorize access to  
*context* Security context used to contact the service  
*callback* Callback function to call when authz handle init completes  
*callback\_arg* Argument to callback function

### Returns:

GLOBUS\_SUCCESS if successful A Globus error object on failure:

**2.1.1.2** `globus_result_t globus_gsi_authorize (globus_gsi_authz_handle_t handle, const void * action, const void * object, globus_gsi_authz_cb_t callback, void * callback_arg)`

Authorization decision made here.

### Parameters:

*handle* Pointer to the handle that is to be initialized  
*action* Action to authorize  
*object* Object that the action pertains to.  
*callback* Callback function to call when authorization completes  
*callback\_arg* Argument to callback function

### Returns:

GLOBUS\_SUCCESS if successful A Globus error object on failure:

**2.1.1.3** `globus_result_t globus_gsi_authz_handle_destroy (globus_gsi_authz_handle_t handle, globus_gsi_authz_cb_t callback, void * callback_arg)`

Destroy a Globus GSI authz handle.

### Parameters:

*handle* The handle that is to be destroyed  
*callback* Callback function to call when handle is destroyed  
*callback\_arg* Argument to callback function

### Returns:

GLOBUS\_SUCCESS

**2.1.1.4** `globus_result_t globus_gsi_authz_get_authorization_identity (globus_gsi_authz_handle_t handle, char ** identity_ptr, globus_gsi_authz_cb_t callback, void * callback_arg)`

Query for authorization identity.

**Parameters:**

*handle* The handle that is to be used for the identity check.

*identity\_ptr* The authorization identity determined by the authorization handle. This is must be freed by the caller. If the value is NULL (and this function returned GLOBUS\_SUCCESS), the caller should use the authenticated identity.

*callback* Callback function to call when identity is determined.

*callback\_arg* Argument to callback function.

**Returns:**

GLOBUS\_SUCCESS

## 2.2 GSI Credential Constants

**Enumerations**

- enum `globus_gsi_authz_error_t` {  
    GLOBUS\_GSI\_AUTHZ\_ERROR\_SUCCESS = 0,  
    GLOBUS\_GSI\_AUTHZ\_ERROR\_ERRNO = 1,  
    GLOBUS\_GSI\_AUTHZ\_ERROR\_BAD\_PARAMETER = 2,  
    GLOBUS\_GSI\_AUTHZ\_ERROR\_CALLOUT = 3 }

### 2.2.1 Enumeration Type Documentation

#### 2.2.1.1 enum `globus_gsi_authz_error_t`

GSI Authz Error codes.

**Enumerator:**

*GLOBUS\_GSI\_AUTHZ\_ERROR\_SUCCESS* Success.

*GLOBUS\_GSI\_AUTHZ\_ERROR\_ERRNO* Error with system call.

*GLOBUS\_GSI\_AUTHZ\_ERROR\_BAD\_PARAMETER* Invalid parameter.

*GLOBUS\_GSI\_AUTHZ\_ERROR\_CALLOUT* Callout returned an error.

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