

globus authz

2.2

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## 1 Module Index

### 1.1 Modules

Here is a list of all modules:

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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 Detailed Description

### 2.1.2 Function Documentation

2.1.2.1 `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

|                     |  |
|---------------------|--|
| <i>handle</i>       | Pointer to the handle that is to be initialized            |
| <i>service_name</i> | Service to authorize access to                             |
| <i>context</i>      | Security context used to contact the service               |
| <i>callback</i>     | Callback function to call when authz handle init completes |
| <i>callback_arg</i> | Argument to callback function                              |

#### Returns

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

2.1.2.2 `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

|                     |  |
|---------------------|--|
| <i>handle</i>       | Pointer to the handle that is to be initialized        |
| <i>action</i>       | Action to authorize                                    |
| <i>object</i>       | Object that the action pertains to.                    |
| <i>callback</i>     | Callback function to call when authorization completes |
| <i>callback_arg</i> | Argument to callback function                          |

#### Returns

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

2.1.2.3 `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

|                     |  |
|---------------------|--|
| <i>handle</i>       | The handle that is to be destroyed                 |
| <i>callback</i>     | Callback function to call when handle is destroyed |
| <i>callback_arg</i> | Argument to callback function                      |

#### Returns

GLOBUS\_SUCCESS

2.1.2.4 `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

|                     |   |
|---------------------|---|
| <i>handle</i>       | The handle that is to be used for the identity check.   |
| <i>identity_ptr</i> | 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. |
| <i>callback</i>     | Callback function to call when identity is determined.  |
| <i>callback_arg</i> | 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 Detailed Description

#### 2.2.2 Enumeration Type Documentation

##### 2.2.2.1 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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