

globus gsi callback

4.6

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1 Globus GSI Callback

The Globus GSI Callback library. This library contains functions that extend OpenSSL path validation.

- **Activation** (p. 2)
- **Callback Functions** (p. 3)
- **Callback Data Functions** (p. 6)

2 Deprecated List

Global `globus_gsi_callback_get_multiple_limited_proxy_ok` (p. 11) (`globus_gsi_callback_data_t` `callback_data`, `int *multiple_limited_proxy_ok`)

This function always returns true now. It will be removed in the next release.

Global `globus_gsi_callback_set_multiple_limited_proxy_ok` (p. 11) (`globus_gsi_callback_data_t callback_data, int multiple_limited_proxy_ok`)

This function has been turned into a no-op. It will be removed in the next release.

3 Module Index

3.1 Modules

Here is a list of all modules:

Activation	2
Callback Functions	3
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GSI Callback Constants	16

4 Module Documentation

4.1 Activation

Macros

- `#define GLOBUS_GSI_CALLBACK_MODULE`

4.1.1 Detailed Description

Globus GSI Callback uses standard Globus module activation and deactivation. Before any Globus GSI Callback functions are called, the following function must be called:

```
globus_module_activate(GLOBUS_GSI_CALLBACK_MODULE)
```

This function returns `GLOBUS_SUCCESS` if Globus GSI Callback was successfully initialized, and you are therefore allowed to subsequently call Globus GSI Callback functions. Otherwise, an error code is returned, and Globus GSI Credential functions should not be subsequently called. This function may be called multiple times.

To deactivate Globus GSI Callback, the following function must be called:

```
globus_module_deactivate(GLOBUS_GSI_CALLBACK_MODULE)
```

This function should be called once for each time Globus GSI Callback was activated.

4.1.2 Macro Definition Documentation

4.1.2.1 `#define GLOBUS_GSI_CALLBACK_MODULE`

Module descriptor.

4.2 Callback Functions

Typedefs

- typedef int(*** globus_gsi_extension_callback_t**)(**globus_gsi_callback_data_t** callback_data, X509_EXTENSION *extension)

Get callback data index from X509_STORE

- globus_result_t **globus_gsi_callback_get_X509_STORE_callback_data_index** (int *index)

Get callback data index from SSL structure

- globus_result_t **globus_gsi_callback_get_SSL_callback_data_index** (int *index)

Certificate verify wrapper

- int **globus_gsi_callback_X509_verify_cert** (X509_STORE_CTX *context, void *arg)

Independent path validation callback.

- int **globus_gsi_callback_create_proxy_callback** (int preverify_ok, X509_STORE_CTX *x509_context)

SSL path validation callback.

- int **globus_gsi_callback_handshake_callback** (int preverify_ok, X509_STORE_CTX *x509_context)

OpenSSL X509_check_issued() wrapper

- int **globus_gsi_callback_check_issued** (X509_STORE_CTX *context, X509 *cert, X509 *issuer)

4.2.1 Detailed Description

Functions that plug into various plug points in the OpenSSL path validation mechanism. These functions add CRL checking, X509 Extension handling and proxy validation.

4.2.2 Typedef Documentation

4.2.2.1 typedef int(*** globus_gsi_extension_callback_t**)(**globus_gsi_callback_data_t** callback_data, X509_EXTENSION *extension)

Typedef for a callback that may be registered for dealing with unhandled X.509 extension.

4.2.3 Function Documentation

4.2.3.1 globus_result_t **globus_gsi_callback_get_X509_STORE_callback_data_index** (int * *index*)

Retrieve or create the index for our callback data structure in the X509_STORE.

Parameters

<i>index</i>	Will contain the index upon return
--------------	------------------------------------

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_WITH_CALLBACK_DATA_INDEX.

4.2.3.2 `globus_result_t globus_gsi_callback_get_SSL_callback_data_index (int * index)`

Retrieve or create the index for our callback data structure in the SSL structure.

Parameters

<i>index</i>	Will contain the index upon return
--------------	------------------------------------

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_WITH_CALLBACK_DATA_INDEX.

4.2.3.3 `int globus_gsi_callback_X509_verify_cert (X509_STORE_CTX * context, void * arg)`

This function wraps the OpenSSL certificate verification callback for the purpose of replacing the standard issuer check with one that deals with proxy certificates.

Should be used with `SSL_CTX_set_cert_verify_callback()`

Parameters

<i>context</i>	The X509_STORE_CTX for which to register the callback.
<i>arg</i>	Arguments to the callback. Currently ignored.

Returns

1 on success 0 on failure

References `globus_gsi_callback_check_issued()`.

4.2.3.4 `int globus_gsi_callback_create_proxy_callback (int preverify_ok, X509_STORE_CTX * x509_context)`

This function provides a path validation callback for validation outside of a SSL session.

It should be used in `X509_STORE_set_verify_cb_func()`.

Parameters

<i>preverify_ok</i>	Communicates the result of default validation steps performed by OpenSSL
<i>x509_context</i>	The validation state object

Returns

1 on success 0 on failure

References GLOBUS_GSI_CALLBACK_ERROR_VERIFY_CRED, and globus_gsi_callback_get_X509_STORE_callback_data_index().

4.2.3.5 int globus_gsi_callback_handshake_callback (int *preverify_ok*, X509_STORE_CTX * *x509_context*)

This function provides a path validation callback for the validation part of establishing a SSL session.

It handles proxy certificates, X509 Extensions and CRL checking. It should be used in SSL_CTX_set_verify().

Parameters

<i>preverify_ok</i>	Communicates the result of default validation steps performed by OpenSSL
<i>x509_context</i>	The validation state object.

Returns

1 on success 0 on failure

References GLOBUS_GSI_CALLBACK_ERROR_VERIFY_CRED, and globus_gsi_callback_get_SSL_callback_data_index().

4.2.3.6 int globus_gsi_callback_check_issued (X509_STORE_CTX * *context*, X509 * *cert*, X509 * *issuer*)

This function wraps the OpenSSL X509_check_issued() call and catches the error caused by the fact that a proxy certificate issuer may not have to have the correct KeyUsage fields set.

Parameters

<i>context</i>	The validation state object.
<i>cert</i>	The certificate to check
<i>issuer</i>	The issuer certificate to check

Returns

1 on success 0 on failure

4.3 Callback Data Functions

Typedefs

- typedef struct
globus_l_gsi_callback_data_s * **globus_gsi_callback_data_t**

Initializing and destroying a callback data structure

- globus_result_t **globus_gsi_callback_data_init** (globus_gsi_callback_data_t *callback_data)
- globus_result_t **globus_gsi_callback_data_destroy** (globus_gsi_callback_data_t callback_data)

Copying a callback data structure

- globus_result_t **globus_gsi_callback_data_copy** (globus_gsi_callback_data_t source, **globus_gsi_callback_data_t** *dest)

Getting and setting the certificate chain depth

- globus_result_t **globus_gsi_callback_get_cert_depth** (globus_gsi_callback_data_t callback_data, int *cert_depth)
- globus_result_t **globus_gsi_callback_set_cert_depth** (globus_gsi_callback_data_t callback_data, int cert_depth)

Getting and setting the "proxy chain" depth

- globus_result_t **globus_gsi_callback_get_proxy_depth** (globus_gsi_callback_data_t callback_data, int *proxy_depth)
- globus_result_t **globus_gsi_callback_set_proxy_depth** (globus_gsi_callback_data_t callback_data, int proxy_depth)

Getting and setting the certificate type

- globus_result_t **globus_gsi_callback_get_cert_type** (globus_gsi_callback_data_t callback_data, globus_gsi_cert_utils_cert_type_t *cert_type)
- globus_result_t **globus_gsi_callback_set_cert_type** (globus_gsi_callback_data_t callback_data, globus_gsi_cert_utils_cert_type_t cert_type)

Getting and setting the certificate chain

- globus_result_t **globus_gsi_callback_get_cert_chain** (globus_gsi_callback_data_t callback_data, STACK_OF(X509)**cert_chain)
- globus_result_t **globus_gsi_callback_set_cert_chain** (globus_gsi_callback_data_t callback_data, STACK_OF(X509)*cert_chain)

Getting and setting the limited proxy handling setting

- globus_result_t **globus_gsi_callback_get_multiple_limited_proxy_ok** (globus_gsi_callback_data_t callback_data, int *multiple_limited_proxy_ok)
- globus_result_t **globus_gsi_callback_set_multiple_limited_proxy_ok** (globus_gsi_callback_data_t callback_data, int multiple_limited_proxy_ok)

Getting and setting a set of X.509 extension OIDs.

- globus_result_t **globus_gsi_callback_get_extension_oids** (globus_gsi_callback_data_t callback_data, void **extension_oids)
- globus_result_t **globus_gsi_callback_set_extension_oids** (globus_gsi_callback_data_t callback_data, void *extension_oids)

Getting and setting the trusted certificate directory

- globus_result_t **globus_gsi_callback_get_cert_dir** (globus_gsi_callback_data_t callback_data, char **cert_dir)
- globus_result_t **globus_gsi_callback_set_cert_dir** (globus_gsi_callback_data_t callback_data, char *cert_dir)

Getting and setting the callback to be called for unknown X.509 extensions

- globus_result_t **globus_gsi_callback_get_extension_cb** (globus_gsi_callback_data_t callback_data, globus_gsi_extension_callback_t *extension_cb)
- globus_result_t **globus_gsi_callback_set_extension_cb** (globus_gsi_callback_data_t callback_data, globus_gsi_extension_callback_t extension_cb)

Getting and setting the error status

- globus_result_t **globus_gsi_callback_get_error** (globus_gsi_callback_data_t callback_data, globus_result_t *error)
- globus_result_t **globus_gsi_callback_set_error** (globus_gsi_callback_data_t callback_data, globus_result_t error)

Getting and setting the check self-signed policy flag

- globus_result_t **globus_gsi_callback_get_check_policy_for_self_signed_certs** (globus_gsi_callback_data_t callback_data, globus_bool_t *check)
- globus_result_t **globus_gsi_callback_set_check_policy_for_self_signed_certs** (globus_gsi_callback_data_t callback_data, globus_bool_t check)

Getting and setting the allow missing signing policy flag

- globus_result_t **globus_gsi_callback_get_allow_missing_signing_policy** (globus_gsi_callback_data_t callback_data, globus_bool_t *allow)
- globus_result_t **globus_gsi_callback_set_allow_missing_signing_policy** (globus_gsi_callback_data_t callback_data, globus_bool_t allow)

4.3.1 Detailed Description

Functions that deal with the data structure that contains state associated with the path validation callback.

4.3.2 Typedef Documentation

4.3.2.1 typedef struct globus_l_gsi_callback_data_s* globus_gsi_callback_data_t

Callback data typedef.

4.3.3 Function Documentation

4.3.3.1 `globus_result_t globus_gsi_callback_data_init (globus_gsi_callback_data_t * callback_data)`

This function initializes a `globus_gsi_callback_data_t`.

Parameters

<i>callback_data</i>	Reference to the structure to be initialized
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Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA, GLOBUS_GSI_CALLBACK_ERROR_ERRNO, and GLOBUS_GSI_CALLBACK_MODULE.

4.3.3.2 `globus_result_t globus_gsi_callback_data_destroy (globus_gsi_callback_data_t callback_data)`

This function destroys a `globus_gsi_callback_data_t`.

Parameters

<i>callback_data</i>	The structure to be destroyed
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Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

4.3.3.3 `globus_result_t globus_gsi_callback_data_copy (globus_gsi_callback_data_t source, globus_gsi_callback_data_t * dest)`

This function copies a `globus_gsi_callback_data_t`.

Parameters

<i>source</i>	The structure to be copied
<i>dest</i>	The destination of the copy

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References `globus_gsi_callback_data_init()`, GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA, and GLOBUS_GSI_CALLBACK_ERROR_CERT_CHAIN.

4.3.3.4 `globus_result_t globus_gsi_callback_get_cert_depth (globus_gsi_callback_data_t callback_data, int * cert_depth)`

This function returns the certificate chain depth.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to retrieve the depth from
<i>cert_depth</i>	The returned certificate chain depth

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.5 `globus_result_t globus_gsi_callback_set_cert_depth (globus_gsi_callback_data_t callback_data, int cert_depth)`

This function sets the certificate chain depth.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to retrieve the depth from
<i>cert_depth</i>	The certificate chain depth

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.6 `globus_result_t globus_gsi_callback_get_proxy_depth (globus_gsi_callback_data_t callback_data, int * proxy_depth)`

This function returns the number of proxies in the certificate chain.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to retrieve the depth from
<i>proxy_depth</i>	The returned "proxy chain" depth

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.7 `globus_result_t globus_gsi_callback_set_proxy_depth (globus_gsi_callback_data_t callback_data, int proxy_depth)`

This function sets the number of proxies in the certificate chain.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to retrieve the depth from
<i>proxy_depth</i>	The "proxy chain" depth

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.8 `globus_result_t globus_gsi_callback_get_cert_type (globus_gsi_callback_data_t callback_data, globus_gsi_cert_utils_cert_type_t * cert_type)`

This function returns the certificate type of the certificate currently being processed.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to retrieve the certificate type from
<i>cert_type</i>	Variable containing the certificate type on return

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.9 `globus_result_t globus_gsi_callback_set_cert_type (globus_gsi_callback_data_t callback_data, globus_gsi_cert_utils_cert_type_t cert_type)`

This function sets the certificate type of the certificate currently being processed.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to set the certificate type on
<i>cert_type</i>	The certificate type

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.10 `globus_result_t globus_gsi_callback_get_cert_chain (globus_gsi_callback_data_t callback_data, STACK_OF(X509)** cert_chain)`

This function returns the certificate chain associated with the callback data.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to retrieve the certificate chain from.
<i>cert_chain</i>	Contains the certificate chain upon successful return

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.11 `globus_result_t globus_gsi_callback_set_cert_chain (globus_gsi_callback_data_t callback_data, STACK_OF(X509)* cert_chain)`

This function sets the certificate chain associated with the callback data.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to set the certificate chain on
<i>cert_chain</i>	The certificate chain

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.12 `globus_result_t globus_gsi_callback_get_multiple_limited_proxy_ok (globus_gsi_callback_data_t callback_data, int * multiple_limited_proxy_ok)`

This function gets the value of the limited proxy handling setting.

This setting determines whether path validation will accept limited proxies that have been further delegated, ie certificate chains with a limited proxy followed by further proxies.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to get the limited proxy setting from
<i>multiple_limited_proxy_ok</i>	Contains the value of the setting upon successful return.

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

Deprecated This function always returns true now. It will be removed in the next release.

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.13 `globus_result_t globus_gsi_callback_set_multiple_limited_proxy_ok (globus_gsi_callback_data_t callback_data, int multiple_limited_proxy_ok)`

This function sets the value of the limited proxy handling setting.

This setting determines whether path validation will accept limited proxies that have been further delegated, ie certificate chains with a limited proxy followed by further proxies.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to set the limited proxy setting on
<i>multiple_limited_proxy_ok</i>	The value of the setting

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

Deprecated This function has been turned into a no-op. It will be removed in the next release.

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.14 `globus_result_t globus_gsi_callback_get_extension_oids (globus_gsi_callback_data_t callback_data, void ** extension_oids)`

This function gets a list of X.509 extension OIDs that may be used by the extensions callback to allow or disallow certain extensions.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to get the array of extension OIDs from.
<i>extension_oids</i>	Contains the list of extension OIDs upon successful return.

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.15 `globus_result_t globus_gsi_callback_set_extension_oids (globus_gsi_callback_data_t callback_data, void * extension_oids)`

This function sets a list of X.509 extension OIDs that may be used by the extensions callback to allow or disallow certain extensions.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to get the array of extension OIDs from.
<i>extension_oids</i>	The list of extension OIDs

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.16 `globus_result_t globus_gsi_callback_get_cert_dir (globus_gsi_callback_data_t callback_data, char ** cert_dir)`

This function gets the trusted certificate directory from the callback data.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to get the trusted certificates directory from.
<i>cert_dir</i>	Contains the path to the trusted certificate directory upon successful return.

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.17 `globus_result_t globus_gsi_callback_set_cert_dir (globus_gsi_callback_data_t callback_data, char * cert_dir)`

This function sets the trusted certificate directory on the callback data.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to set the trusted certificates directory on.
<i>cert_dir</i>	The path to the trusted certificate directory

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.18 `globus_result_t globus_gsi_callback_get_extension_cb (globus_gsi_callback_data_t callback_data, globus_gsi_extension_callback_t * extension_cb)`

This function gets the callback that is called for unknown X.509 extensions.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to get the callback information from
<i>extension_cb</i>	Contains the extension callback upon successful return.

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.19 globus_result_t globus_gsi_callback_set_extension_cb (globus_gsi_callback_data_t *callback_data*, globus_gsi_extension_callback_t *extension_cb*)

This function sets the callback that is called for unknown X.509 extensions.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to set the callback information on
<i>extension_cb</i>	The extension callback

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.20 globus_result_t globus_gsi_callback_get_error (globus_gsi_callback_data_t *callback_data*, globus_result_t * *error*)

This function gets the error status stored in the callback data.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to get the error from
<i>error</i>	Contains the error upon successful return.

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.21 globus_result_t globus_gsi_callback_set_error (globus_gsi_callback_data_t *callback_data*, globus_result_t *error*)

This function sets the error status stored in the callback data.

Parameters

<i>callback_data</i>	The globus_gsi_callback_data_t to set the error on
<i>error</i>	The error

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.22 `globus_result_t globus_gsi_callback_get_check_policy_for_self_signed_certs (globus_gsi_callback_data_t callback_data, globus_bool_t * check)`

This function gets the value of the "check policy for self-signed certificates flag" in the callback data.

If this is set then the CA signing policy for a self-signed certificate must include a policy line that allows it to sign itself.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to get the error from
<i>check</i>	Contains the value of the flag upon successful return.

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

Since

Globus Toolkit 4.2.1

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.23 `globus_result_t globus_gsi_callback_set_check_policy_for_self_signed_certs (globus_gsi_callback_data_t callback_data, globus_bool_t check)`

This function sets the value of the "check policy for self-signed certificates flag" in the callback data.

If this is set then the CA signing policy for a self-signed certificate must include a policy line that allows it to sign itself.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to set the error on
<i>check</i>	New value of the flag

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

Since

Globus Toolkit 4.2.1

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.24 `globus_result_t globus_gsi_callback_get_allow_missing_signing_policy (globus_gsi_callback_data_t callback_data, globus_bool_t * allow)`

This function gets the value of the "allow missing signing policy" flag in the callback data.

If this is TRUE then the CA signing policy need not be present.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to get the error from
<i>allow</i>	Contains the value of the flag upon successful return.

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

Since

Globus Toolkit 5.2.0

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.3.3.25 `globus_result_t globus_gsi_callback_set_allow_missing_signing_policy (globus_gsi_callback_data_t callback_data, globus_bool_t allow)`

This function sets the value of the "allow missing signing policy" flag in the callback data.

If this is TRUE then the CA signing policy need not be present.

Parameters

<i>callback_data</i>	The <code>globus_gsi_callback_data_t</code> to set the error on
<i>allow</i>	New value of the flag

Returns

GLOBUS_SUCCESS unless an error occurred, in which case, a globus error object ID is returned

Since

Globus Toolkit 5.2.0

References GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA.

4.4 GSI Callback Constants

Enumerations

- enum **globus_gsi_callback_error_t** {
 GLOBUS_GSI_CALLBACK_ERROR_SUCCESS = 0,
 GLOBUS_GSI_CALLBACK_ERROR_VERIFY_CRED = 1,
 GLOBUS_GSI_CALLBACK_ERROR_CERT_NOT_YET_VALID = 2,
 GLOBUS_GSI_CALLBACK_ERROR_CANT_GET_LOCAL_CA_CERT = 3,
 GLOBUS_GSI_CALLBACK_ERROR_CERT_HAS_EXPIRED = 4,
 GLOBUS_GSI_CALLBACK_ERROR_INVALID_PROXY = 5,
 GLOBUS_GSI_CALLBACK_ERROR_LIMITED_PROXY = 6,
 GLOBUS_GSI_CALLBACK_ERROR_INVALID_CRL = 7,
 GLOBUS_GSI_CALLBACK_ERROR_REVOKED_CERT = 8,
 GLOBUS_GSI_CALLBACK_ERROR_MIXING_DIFFERENT_PROXY_TYPES = 9,
 GLOBUS_GSI_CALLBACK_ERROR_WITH_SIGNING_POLICY = 10,
 GLOBUS_GSI_CALLBACK_ERROR_OLD_GAA = 11,
 GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA = 12,
 GLOBUS_GSI_CALLBACK_ERROR_ERRNO = 13,
 GLOBUS_GSI_CALLBACK_ERROR_CERT_CHAIN = 14,
 GLOBUS_GSI_CALLBACK_ERROR_WITH_CALLBACK_DATA_INDEX = 15,
 GLOBUS_GSI_CALLBACK_ERROR_PROXY_PATH_LENGTH_EXCEEDED = 16,
 GLOBUS_GSI_CALLBACK_ERROR_LAST = 18 }

4.4.1 Detailed Description

4.4.2 Enumeration Type Documentation

4.4.2.1 enum **globus_gsi_callback_error_t**

GSI Callback Error codes.

Enumerator

GLOBUS_GSI_CALLBACK_ERROR_SUCCESS Success - never used.

GLOBUS_GSI_CALLBACK_ERROR_VERIFY_CRED Error verifying credential.

GLOBUS_GSI_CALLBACK_ERROR_CERT_NOT_YET_VALID The certificate is not yet valid.

GLOBUS_GSI_CALLBACK_ERROR_CANT_GET_LOCAL_CA_CERT Unable to discover a local trusted CA for a given certificate.

GLOBUS_GSI_CALLBACK_ERROR_CERT_HAS_EXPIRED The certificate has expired.

GLOBUS_GSI_CALLBACK_ERROR_INVALID_PROXY The proxy format is invalid.

GLOBUS_GSI_CALLBACK_ERROR_LIMITED_PROXY Limited proxies are not accepted.

GLOBUS_GSI_CALLBACK_ERROR_INVALID_CRL Invalid CRL.

GLOBUS_GSI_CALLBACK_ERROR_REVOKED_CERT The certificate has been revoked.

GLOBUS_GSI_CALLBACK_ERROR_MIXING_DIFFERENT_PROXY_TYPES The cert chain contains both legacy on rfc compliant proxies.

GLOBUS_GSI_CALLBACK_ERROR_WITH_SIGNING_POLICY Could not verify certificate chain against the signing policy for the issuing CA.

GLOBUS_GSI_CALLBACK_ERROR_OLD_GAA OldGAA error.

GLOBUS_GSI_CALLBACK_ERROR_CALLBACK_DATA Error with the callback data structure.

GLOBUS_GSI_CALLBACK_ERROR_ERRNO System error.

GLOBUS_GSI_CALLBACK_ERROR_CERT_CHAIN Error setting or getting the cert chain from callback data.

GLOBUS_GSI_CALLBACK_ERROR_WITH_CALLBACK_DATA_INDEX Error getting callback data index.

GLOBUS_GSI_CALLBACK_ERROR_PROXY_PATH_LENGTH_EXCEEDED Exceeded the path length specified in the proxy cert info extension.

GLOBUS_GSI_CALLBACK_ERROR_LAST Last marker - never used.

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