

globus gsi credential

2.2

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1 Globus GSI Credential

The Globus GSI Credential library. This library contains functions that provide support for handling X.509 based PKI credentials

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2 Module Index

2.1 Modules

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3 Module Documentation

3.1 Credential Constants

Enumerations

- enum `globus_gsi_cred_error_t` {
`GLOBUS_GSI_CRED_ERROR_SUCCESS` = 0,
`GLOBUS_GSI_CRED_ERROR_READING_PROXY_CRED` = 1,
`GLOBUS_GSI_CRED_ERROR_READING_HOST_CRED` = 2,
`GLOBUS_GSI_CRED_ERROR_READING_SERVICE_CRED` = 3,
`GLOBUS_GSI_CRED_ERROR_READING_CRED` = 4,
`GLOBUS_GSI_CRED_ERROR_WRITING_CRED` = 5,
`GLOBUS_GSI_CRED_ERROR_WRITING_PROXY_CRED` = 6,
`GLOBUS_GSI_CRED_ERROR_CHECKING_PROXY` = 7,
`GLOBUS_GSI_CRED_ERROR_VERIFYING_CRED` = 8,
`GLOBUS_GSI_CRED_ERROR_WITH_CRED` = 9,
`GLOBUS_GSI_CRED_ERROR_WITH_CRED_CERT` = 10,
`GLOBUS_GSI_CRED_ERROR_WITH_CRED_PRIVATE_KEY` = 11,
`GLOBUS_GSI_CRED_ERROR_WITH_CRED_CERT_CHAIN` = 12,
`GLOBUS_GSI_CRED_ERROR_ERRNO` = 13,
`GLOBUS_GSI_CRED_ERROR_SYSTEM_CONFIG` = 14,
`GLOBUS_GSI_CRED_ERROR_WITH_CRED_HANDLE_ATTRS` = 15,
`GLOBUS_GSI_CRED_ERROR_WITH_SSL_CTX` = 16,
`GLOBUS_GSI_CRED_ERROR_WITH_CALLBACK_DATA` = 17,
`GLOBUS_GSI_CRED_ERROR_CREATING_ERROR_OBJ` = 18,
`GLOBUS_GSI_CRED_ERROR_KEY_IS_PASS_PROTECTED` = 19,
`GLOBUS_GSI_CRED_ERROR_NO_CRED_FOUND` = 20,
`GLOBUS_GSI_CRED_ERROR_SUBJECT_CMP` = 21,
`GLOBUS_GSI_CRED_ERROR_GETTING_SERVICE_NAME` = 22,
`GLOBUS_GSI_CRED_ERROR_BAD_PARAMETER` = 23,
`GLOBUS_GSI_CRED_ERROR_WITH_CRED_CERT_NAME` = 24,
`GLOBUS_GSI_CRED_ERROR_LAST` = 25 }
- enum `globus_gsi_cred_type_t`

3.1.1 Enumeration Type Documentation

3.1.1.1 enum globus_gsi_cred_error_t

Credential Error codes.

Enumerator:

GLOBUS_GSI_CRED_ERROR_SUCCESS Success - never used.

GLOBUS_GSI_CRED_ERROR_READING_PROXY_CRED Failed to read proxy credential.

GLOBUS_GSI_CRED_ERROR_READING_HOST_CRED Failed to read host credential.

GLOBUS_GSI_CRED_ERROR_READING_SERVICE_CRED Failed to read service credential.

GLOBUS_GSI_CRED_ERROR_READING_CRED Failed to read user credential.

GLOBUS_GSI_CRED_ERROR_WRITING_CRED Failed to write credential.

GLOBUS_GSI_CRED_ERROR_WRITING_PROXY_CRED Failed to write proxy credential.

GLOBUS_GSI_CRED_ERROR_CHECKING_PROXY Error checking for proxy credential.

GLOBUS_GSI_CRED_ERROR_VERIFYING_CRED Failed to verify credential.

GLOBUS_GSI_CRED_ERROR_WITH_CRED Invalid credential.

GLOBUS_GSI_CRED_ERROR_WITH_CRED_CERT Invalid certificate.

GLOBUS_GSI_CRED_ERROR_WITH_CRED_PRIVATE_KEY Invalid private key.

GLOBUS_GSI_CRED_ERROR_WITH_CRED_CERT_CHAIN Invalid certificate chain.

GLOBUS_GSI_CRED_ERROR_ERRNO System error.

GLOBUS_GSI_CRED_ERROR_SYSTEM_CONFIG A Globus GSI System Configuration call failed.

GLOBUS_GSI_CRED_ERROR_WITH_CRED_HANDLE_ATTRS Invalid credential handle attributes.

GLOBUS_GSI_CRED_ERROR_WITH_SSL_CTX Faulty SSL context.

GLOBUS_GSI_CRED_ERROR_WITH_CALLBACK_DATA Faulty callback data.

GLOBUS_GSI_CRED_ERROR_CREATING_ERROR_OBJ Failed to aggregate errors.

GLOBUS_GSI_CRED_ERROR_KEY_IS_PASS_PROTECTED Error reading private key - the key is password protected.

GLOBUS_GSI_CRED_ERROR_NO_CRED_FOUND Couldn't find credential to read.

GLOBUS_GSI_CRED_ERROR_SUBJECT_CMP Credential subjects do not compare.

GLOBUS_GSI_CRED_ERROR_GETTING_SERVICE_NAME Unable to obtain service name from CN entry.

GLOBUS_GSI_CRED_ERROR_BAD_PARAMETER Invalid function parameter.

GLOBUS_GSI_CRED_ERROR_WITH_CRED_CERT_NAME Failed to process certificate subject.

GLOBUS_GSI_CRED_ERROR_LAST End marker - never used.

3.1.1.2 enum globus_gsi_cred_type_t

Credential Type

An enum representing a GSI Credential Type which holds info about the type of a particular credential.

The three types of credential can be: GLOBUS_PROXY, GLOBUS_USER, or GLOBUS_HOST.

See also:

[Credential Handle Management](#)

3.2 Activation

Globus GSI Credential uses standard Globus module activation and deactivation.

Defines

- `#define` [GLOBUS_GSI_CREDENTIAL_MODULE](#)

3.2.1 Detailed Description

Globus GSI Credential uses standard Globus module activation and deactivation.

Before any Globus GSI Credential functions are called, the following function must be called:

```
globus_module_activate(GLOBUS_GSI_CREDENTIAL_MODULE)
```

This function returns `GLOBUS_SUCCESS` if Globus GSI Credential was successfully initialized, and you are therefore allowed to subsequently call Globus GSI Credential 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 Credential, the following function must be called:

```
globus_module_deactivate(GLOBUS_GSI_CREDENTIAL_MODULE)
```

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

3.2.2 Define Documentation

3.2.2.1 `#define` [GLOBUS_GSI_CREDENTIAL_MODULE](#)

Module descriptor.

3.3 Credential Handle Management

Create/Destroy/Modify a GSI Credential Handle.

Typedefs

- `typedef struct globus_l_gsi_cred_handle_s * globus_gsi_cred_handle_t`

3.3.1 Detailed Description

Create/Destroy/Modify a GSI Credential Handle.

Within the Globus GSI Credential Library, all credential operations require a handle parameter. Currently only one operation may be in progress at once per credential handle.

This section defines operations to create, modify and destroy GSI Credential handles.

3.3.2 Typedef Documentation

3.3.2.1 typedef struct globus_l_gsi_cred_handle_s* globus_gsi_cred_handle_t

GSI Credential Handle.

A GSI Credential handle keeps track of state relating to a credential. Handles can have immutable [attributes](#) associated with them. All credential [operations](#) take a credential handle pointer as a parameter.

See also:

[globus_gsi_cred_handle_init\(\)](#), [globus_gsi_cred_handle_destroy\(\)](#), [globus_gsi_cred_handle_attrs_t](#)

3.3.3 Function Documentation

3.3.3.1 globus_result_t globus_gsi_cred_handle_init (globus_gsi_cred_handle_t * *handle*, globus_gsi_cred_handle_attrs_t *handle_attrs*)

Initializes a credential handle to be used credential handling functions.

Takes a set of handle attributes that are immutable to the handle. The handle attributes are only pointed to by the handle, so the lifetime of the attributes needs to be as long as that of the handle.

Parameters:

handle The handle to be initialized

handle_attrs The immutable attributes of the handle

Returns:

GLOBUS_SUCCESS or an error captured in a globus_result_t

3.3.3.2 globus_result_t globus_gsi_cred_handle_destroy (globus_gsi_cred_handle_t *handle*)

Destroys the credential handle.

Parameters:

handle The credential handle to be destroyed

Returns:

GLOBUS_SUCCESS

3.3.3.3 globus_result_t globus_gsi_cred_handle_copy (globus_gsi_cred_handle_t *source*, globus_gsi_cred_handle_t * *dest*)

Copies a credential handle.

Parameters:

source The handle to be copied

dest The destination of the copy

Returns:

GLOBUS_SUCCESS or an error captured in a globus_result_t

3.3.3.4 `globus_result_t globus_gsi_cred_get_handle_attrs (globus_gsi_cred_handle_t handle, globus_gsi_cred_handle_attrs_t * attrs)`

This function retrieves a copy of the credential handle attributes.

Parameters:

handle The credential handle to retrieve the attributes from

attrs Contains the credential attributes on return

Returns:

GLOBUS_SUCCESS or an error captured in a `globus_result_t`

3.3.3.5 `globus_result_t globus_gsi_cred_get_goodtill (globus_gsi_cred_handle_t cred_handle, time_t * goodtill)`

This function retrieves the expiration time of the credential contained in the handle.

Parameters:

cred_handle The credential handle to retrieve the expiration time from

goodtill Contains the expiration time on return

Returns:

GLOBUS_SUCCESS or an error captured in a `globus_result_t`

3.3.3.6 `globus_result_t globus_gsi_cred_get_lifetime (globus_gsi_cred_handle_t cred_handle, time_t * lifetime)`

This function retrieves the lifetime of the credential contained in a handle.

Parameters:

cred_handle The credential handle to retrieve the lifetime from

lifetime Contains the lifetime on return

Returns:

GLOBUS_SUCCESS or an error captured in a `globus_result_t`

3.3.3.7 `globus_result_t globus_gsi_cred_get_key_bits (globus_gsi_cred_handle_t cred_handle, int * key_bits)`

This function retrieves the key strength of the credential contained in a handle.

Parameters:

cred_handle The credential handle to retrieve the strength from

key_bits Contains the number of bits in the key on return

Returns:

GLOBUS_SUCCESS or an error captured in a `globus_result_t`

3.3.3.8 globus_result_t globus_gsi_cred_set_cert (globus_gsi_cred_handle_t *handle*, X509 * *cert*)

Set the Credential's Certificate.

The X509 cert that is passed in should be a valid X509 certificate object

Parameters:

handle The credential handle to set the certificate on

cert The X509 cert to set in the cred handle. The cert passed in can be NULL which will set the cert in the handle to NULL, freeing the current cert in the handle.

Returns:

GLOBUS_SUCCESS or an error object id if an error

3.3.3.9 globus_result_t globus_gsi_cred_get_cert (globus_gsi_cred_handle_t *handle*, X509 ** *cert*)

Get the certificate of a credential.

Parameters:

handle The credential handle to get the certificate from

cert The resulting X509 certificate, a duplicate of the certificate in the credential handle. This variable should be freed when the user is finished with it using the function X509_free.

Returns:

GLOBUS_SUCCESS if no error, otherwise an error object id is returned

3.3.3.10 globus_result_t globus_gsi_cred_set_key (globus_gsi_cred_handle_t *handle*, EVP_PKEY * *key*)

Set the private key of the credential handle.

Parameters:

handle The handle on which to set the key.

key The private key to set the handle's key to. This value can be NULL, in which case the current handle's key is freed.

3.3.3.11 globus_result_t globus_gsi_cred_get_key (globus_gsi_cred_handle_t *handle*, EVP_PKEY ** *key*)

Get the credential handle's private key.

Parameters:

handle The credential handle containing the private key to get

key The private key which after this function returns is set to a duplicate of the private key of the credential handle. This variable needs to be freed by the user when it is no longer used via the function EVP_PKEY_free.

Returns:

GLOBUS_SUCCESS or an error object identifier

3.3.3.12 globus_result_t globus_gsi_cred_set_cert_chain (globus_gsi_cred_handle_t *handle*, STACK_OF(X509)* *cert_chain*)

Set the certificate chain of the credential handle.

Parameters:

handle The handle containing the certificate chain field to set

cert_chain The certificate chain to set the handle's certificate chain to

Returns:

GLOBUS_SUCCESS if no error, otherwise an error object id is returned

3.3.3.13 globus_result_t globus_gsi_cred_get_cert_chain (globus_gsi_cred_handle_t *handle*, STACK_OF(X509) *cert_chain*)**

Get the certificate chain of the credential handle.

Parameters:

handle The credential handle containing the certificate chain to get

cert_chain The certificate chain to set as a duplicate of the cert chain in the credential handle. This variable (or the variable it points to) needs to be freed when the user is finished with it using sk_X509_free.

Returns:

GLOBUS_SUCCESS if no error, otherwise an error object id is returned

3.3.3.14 globus_result_t globus_gsi_cred_get_X509_subject_name (globus_gsi_cred_handle_t *handle*, X509_NAME *subject_name*)**

Get the credential handle's certificate subject name.

Parameters:

handle The credential handle containing the certificate to get the subject name of

subject_name The subject name as an X509_NAME object. This should be freed using X509_NAME_free when the user is finished with it

Returns:

GLOBUS_SUCCESS if no error, a error object id otherwise

3.3.3.15 globus_result_t globus_gsi_cred_get_X509_identity_name (globus_gsi_cred_handle_t *handle*, X509_NAME *identity_name*)**

Get the identity's X509 subject name from the credential handle.

Parameters:

handle The credential handle containing the certificate to get the identity from

identity_name The identity certificate's X509 subject name

Returns:

GLOBUS_SUCCESS if no error, otherwise an error object identifier is returned

3.3.3.16 `globus_result_t globus_gsi_cred_get_subject_name (globus_gsi_cred_handle_t handle, char **subject_name)`

Get the credential handle's certificate subject name.

Parameters:

handle The credential handle containing the certificate to get the subject name of

subject_name The subject name as a string. This should be freed using `free()` when the user is finished with it

Returns:

GLOBUS_SUCCESS if no error, a error object id otherwise

3.3.3.17 `globus_result_t globus_gsi_cred_get_policies (globus_gsi_cred_handle_t handle, STACK **policies)`

Get the Policies from the Cert Chain in the handle.

The policies will be null-terminated as they are added to the handle. If a policy for a cert in the chain doesn't exist, the string in the stack will be set to the static string GLOBUS_NULL_POLICIES

Parameters:

handle the handle to get the cert chain containing the policies

policies the stack of policies retrieved from the handle's cert chain

Returns:

GLOBUS_SUCCESS or an error object if an error occurred

3.3.3.18 `globus_result_t globus_gsi_cred_get_policy_languages (globus_gsi_cred_handle_t handle, STACK_OF(ASN1_OBJECT)**policy_languages)`

Get the policy languages from the cert chain in the handle.

Parameters:

handle the handle to get the cert chain containing the policies

policy_languages the stack of policies retrieved from the handle's cert chain

Returns:

GLOBUS_SUCCESS or an error object if an error occurred

3.3.3.19 `globus_result_t globus_gsi_cred_get_issuer_name (globus_gsi_cred_handle_t handle, char **issuer_name)`

Get the issuer's subject name from the credential handle.

Parameters:

handle The credential handle containing the certificate to get the issuer of

issuer_name The issuer certificate's subject name

Returns:

GLOBUS_SUCCESS if no error, otherwise an error object identifier is returned

3.3.3.20 `globus_result_t globus_gsi_cred_get_identity_name (globus_gsi_cred_handle_t handle, char **identity_name)`

Get the identity's subject name from the credential handle.

Parameters:

handle The credential handle containing the certificate to get the identity of
identity_name The identity certificate's subject name

Returns:

GLOBUS_SUCCESS if no error, otherwise an error object identifier is returned

3.3.3.21 `globus_result_t globus_gsi_cred_verify_cert_chain (globus_gsi_cred_handle_t cred_handle, globus_gsi_callback_data_t callback_data)`

This function performs path validation on the certificate chain contained in the credential handle.

Parameters:

cred_handle The credential handle containing the certificate chain to be validated
callback_data A initialized callback data structure

Returns:

GLOBUS_SUCCESS if no error, otherwise an error object identifier is returned

3.3.3.22 `globus_result_t globus_gsi_cred_verify (globus_gsi_cred_handle_t handle)`

This function ensures that the certificate and private key in the credential handle match.

Parameters:

handle The credential handle containing the certificate and key to be validated

Returns:

GLOBUS_SUCCESS if no error, otherwise an error object identifier is returned

3.4 Credential Handle Attributes

Create/Destroy/Modify GSI Credential Handle Attributes.

Typedefs

- `typedef struct globus_l_gsi_cred_handle_attrs_s * globus_gsi_cred_handle_attrs_t`

3.4.1 Detailed Description

Create/Destroy/Modify GSI Credential Handle Attributes.

Within the Globus GSI Credential Library, all credential handles contain a attribute structure, which in turn contains handle instance independent attributes.

This section defines operations to create, modify and destroy GSI Credential handle attributes.

3.4.2 Typedef Documentation

3.4.2.1 typedef struct globus_l_gsi_cred_handle_attrs_s* globus_gsi_cred_handle_attrs_t

Credential Handle Attributes.

Credential handle attributes provide a set of immutable parameters for a credential handle

See also:

[globus_gsi_cred_handle_init](#)

3.4.3 Function Documentation

3.4.3.1 globus_result_t globus_gsi_cred_handle_attrs_init (globus_gsi_cred_handle_attrs_t * *handle_attrs*)

Initializes the immutable Credential Handle Attributes The handle attributes are initialized as follows:.

- The search order is set to SERVICE, HOST, PROXY, USER
- All other attributes are set to 0/NULL

Parameters:

handle_attrs the attributes to be initialized

Returns:

GLOBUS_SUCCESS if initialization was successful, otherwise an error is returned

3.4.3.2 globus_result_t globus_gsi_cred_handle_attrs_destroy (globus_gsi_cred_handle_attrs_t *handle_attrs*)

Destroy the Credential Handle Attributes.

This function does some cleanup and deallocation of the handle attributes.

Parameters:

handle_attrs The handle attributes to destroy

Returns:

GLOBUS_SUCCESS

3.4.3.3 globus_result_t globus_gsi_cred_handle_attrs_copy (globus_gsi_cred_handle_attrs_t *source*, globus_gsi_cred_handle_attrs_t * *dest*)

Copy the Credential Handle Attributes.

Parameters:

source The handle attribute to be copied

dest The copy

Returns:

GLOBUS_SUCCESS unless there was an error, in which case an error object is returned.

3.4.3.4 globus_result_t globus_gsi_cred_handle_attrs_set_ca_cert_dir (globus_gsi_cred_handle_attrs_t handle_attrs, char * ca_cert_dir)

Set the Trusted CA Certificate Directory Location.

Parameters:

handle_attrs the credential handle attributes to set

ca_cert_dir the trusted ca certificates directory

Returns:

GLOBUS_SUCCESS if no errors occurred. In case of a null handle_attrs, an error object id is returned

3.4.3.5 globus_result_t globus_gsi_cred_handle_attrs_get_ca_cert_dir (globus_gsi_cred_handle_attrs_t handle_attrs, char ** ca_cert_dir)

Get the trusted ca cert directory.

Parameters:

handle_attrs the credential handle attributes to get the trusted ca cert directory from

ca_cert_dir the trusted ca certificates directory

Returns:

GLOBUS_SUCCESS if no errors occurred. In case of a null handle_attrs or pointer to ca_cert_dir, an error object id is returned

3.4.3.6 globus_result_t globus_gsi_cred_handle_attrs_set_search_order (globus_gsi_cred_handle_attrs_t handle_attrs, globus_gsi_cred_type_t search_order[])

Set the search order for finding a user certificate.

The default value is {SERVICE, HOST, PROXY, USER}

Parameters:

handle_attrs The handle attributes to set the search order of

search_order The search order. Should be a three element array containing in some order PROXY, USER, HOST, SERVICE. The array should be terminated by the value GLOBUS_SO_END.

Returns:

GLOBUS_SUCCESS unless handle_attrs is null

3.4.3.7 globus_result_t globus_gsi_cred_handle_attrs_get_search_order (globus_gsi_cred_handle_attrs_t handle_attrs, globus_gsi_cred_type_t ** search_order)

Get the search order of the handle attributes.

Parameters:

handle_attrs The handle attributes to get the search order from

search_order The search_order of the handle attributes

Returns:

GLOBUS_SUCCESS unless handle_attrs is null

3.5 Credential Operations

Read/Write a GSI Credential Handle.

3.5.1 Detailed Description

Read/Write a GSI Credential Handle.

This section defines operations to read and write GSI Credential handles.

3.5.2 Function Documentation

3.5.2.1 `globus_result_t globus_gsi_cred_read (globus_gsi_cred_handle_t handle, X509_NAME * desired_subject)`

Read a Credential from a filesystem location.

The credential to read will be determined by the search order specified in the handle attributes.

Parameters:

handle The credential handle to set. This credential handle should already be initialized using `globus_gsi_cred_handle_init`.

desired_subject The subject to check for when reading in a credential. The `desired_subject` should be either an exact match of the read cert's subject or should just contain the `/CN` entry. If null, the credential read in is the first match based on the system configuration (paths and environment variables)

Returns:

GLOBUS_SUCCESS if no errors occurred, otherwise, an error object identifier is returned.

See also:

[globus_gsi_cred_read_proxy\(\)](#)
[globus_gsi_cred_read_cert_and_key\(\)](#)

Note:

This function always searches for the desired credential. If you don't want to perform a search, then don't use this function. The search goes in the order of the handle attributes' search order.

3.5.2.2 `globus_result_t globus_gsi_cred_read_proxy (globus_gsi_cred_handle_t handle, const char * proxy_filename)`

Read a proxy from a PEM file.

Parameters:

handle The credential handle to set based on the proxy credential read from the file

proxy_filename The file containing the proxy credential

Returns:

GLOBUS_SUCCESS or an error object identifier

3.5.2.3 globus_result_t globus_gsi_cred_read_proxy_bio (globus_gsi_cred_handle_t handle, BIO * bio)

Read a Proxy Credential from a BIO stream and set the credential handle to represent the read credential.

The values read from the stream, in order, will be the signed certificate, the private key, and the certificate chain

Parameters:

handle The credential handle to set. The credential should handle be initialized (i.e. not NULL).

bio The stream to read the credential from

Returns:

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

3.5.2.4 globus_result_t globus_gsi_cred_read_key (globus_gsi_cred_handle_t handle, char * key_filename, int(*)() pw_cb)

Read a key from a PEM file.

Parameters:

handle the handle to set based on the key that is read

key_filename the filename of the key to read

pw_cb the callback for obtaining a password for decrypting the key.

Returns:

GLOBUS_SUCCESS or an error object identifier

3.5.2.5 globus_result_t globus_gsi_cred_read_cert (globus_gsi_cred_handle_t handle, char * cert_filename)

Read a cert from a file.

Cert should be in PEM format.

Parameters:

handle the handle to set based on the certificate that is read

cert_filename the filename of the certificate to read

Returns:

GLOBUS_SUCCESS or an error object identifier

3.5.2.6 globus_result_t globus_gsi_cred_read_pkcs12 (globus_gsi_cred_handle_t handle, char * pkcs12_filename)

Read a cert & key from a file.

The file should be in PKCS12 format.

Parameters:

handle the handle to populate with the read credential

pkcs12_filename the filename containing the credential to read

Returns:

GLOBUS_SUCCESS or an error object identifier

3.5.2.7 globus_result_t globus_gsi_cred_write (globus_gsi_cred_handle_t *handle*, BIO * *bio*)

Write out a credential to a BIO.

The credential parameters written, in order, are the signed certificate, the RSA private key, and the certificate chain (a set of X509 certificates). the credential is written out in PEM format.

Parameters:

handle The credential to write out

bio The BIO stream to write out to

Returns:

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

3.5.2.8 globus_result_t globus_gsi_cred_write_proxy (globus_gsi_cred_handle_t *handle*, char * *proxy_filename*)

Write out a credential to a file.

The credential parameters written, in order, are the signed certificate, the RSA private key, and the certificate chain (a set of X509 certificates). the credential is written out in PEM format.

Parameters:

handle The credential to write out

proxy_filename The file to write out to

Returns:

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

3.5.2.9 globus_result_t globus_gsi_cred_get_cert_type (globus_gsi_cred_handle_t *handle*, globus_gsi_cert_utils_cert_type_t * *type*)

Determine the type of the given X509 certificate For the list of possible values returned, see globus_gsi_cert_utils_cert_type_t.

Parameters:

handle The credential handle containing the certificate

type The returned X509 certificate type

Returns:

GLOBUS_SUCCESS or an error captured in a globus_result_t

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