

# globus gsi cert utils

## 6.7

Generated by Doxygen 1.7.3

Sat Apr 30 2011 06:48:28

# Contents

<b>1</b>	<b>Globus GSI Certificate Handling Utilities</b>	<b>1</b>
<b>2</b>	<b>Module Index</b>	<b>1</b>
2.1	Modules . . . . .	1
<b>3</b>	<b>Module Documentation</b>	<b>1</b>
3.1	Activation . . . . .	1
3.1.1	Detailed Description . . . . .	2
3.1.2	Define Documentation . . . . .	2
3.2	Cert Utils Functions . . . . .	2
3.2.1	Detailed Description . . . . .	2
3.2.2	Function Documentation . . . . .	2
3.3	Cert Utils Constants . . . . .	3
3.3.1	Typedef Documentation . . . . .	4
3.3.2	Enumeration Type Documentation . . . . .	4

## 1 Globus GSI Certificate Handling Utilities

The Globus GSI Certificate Handling Utilities library. This library contains helper functions for dealing with certificates.

- [Activation](#)
- [Cert Utils Functions](#)
- [Cert Utils Constants](#)

## 2 Module Index

### 2.1 Modules

Here is a list of all modules:

<b>Activation</b>	<b>1</b>
<b>Cert Utils Functions</b>	<b>2</b>
<b>Cert Utils Constants</b>	<b>3</b>

## 3 Module Documentation

### 3.1 Activation

Globus GSI Cert Utils uses standard Globus module activation and deactivation.

#### Defines

- `#define GLOBUS_GSI_CERT_UTILS_MODULE`

### 3.1.1 Detailed Description

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

```
globus_module_activate(GLOBUS_GSI_CERT_UTILS_MODULE)
```

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

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

```
globus_module_deactivate(GLOBUS_GSI_CERT_UTILS_MODULE)
```

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

### 3.1.2 Define Documentation

#### 3.1.2.1 #define GLOBUS\_GSI\_CERT\_UTILS\_MODULE

Module descriptor.

## 3.2 Cert Utils Functions

A generic set of utility functions for manipulating OpenSSL objects, such as X509 certificates.

### Functions

- globus\_result\_t [globus\\_gsi\\_cert\\_utils\\_get\\_eec](#) (STACK\_OF(X509)\*cert\_chain, X509 \*\*eec)
- globus\_result\_t [globus\\_gsi\\_cert\\_utils\\_get\\_identity\\_cert](#) (STACK\_OF(X509)\*cert\_chain, X509 \*\*identity\_cert)

### 3.2.1 Detailed Description

A generic set of utility functions for manipulating OpenSSL objects, such as X509 certificates.

### 3.2.2 Function Documentation

#### 3.2.2.1 globus\_result\_t globus\_gsi\_cert\_utils\_get\_eec ( STACK\_OF(X509)\* cert\_chain, X509 \*\* eec )

Get the end-entity certificate associated with a certificate chain.

### Parameters

<i>cert_chain</i>	Certificate chain to inspect.
<i>eec</i>	Pointer to be set to the EEC value from within the cert chain. Must freed by the caller.

### 3.2.2.2 globus\_result\_t globus\_gsi\_cert\_utils\_get\_identity\_cert ( STACK\_OF(X509)\* cert\_chain, X509 \*\* identity\_cert )

Get the identity-providing certificate associated with a certificate chain.

This may be an independent proxy or a end-entity certificate.

#### Parameters

<i>cert_chain</i>	Certificate chain to inspect.
<i>eec</i>	Pointer to be set to the certificate value from within the cert chain. Must freed by the caller.

## 3.3 Cert Utils Constants

#### Typedefs

- typedef enum globus\_gsi\_cert\_utils\_cert\_type\_e globus\_gsi\_cert\_utils\_cert\_type\_t

#### Enumerations

- enum globus\_gsi\_cert\_utils\_error\_t {  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_SUCCESS = 0,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_GETTING\_NAME\_ENTRY\_OF\_SUBJECT = 1,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_COPYING\_SUBJECT = 2,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_GETTING\_CN\_ENTRY = 3,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_ADDING\_CN\_TO\_SUBJECT = 4,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_OUT\_OF\_MEMORY = 5,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_UNEXPECTED\_FORMAT = 6,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_NON\_COMPLIANT\_PROXY = 7,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_DETERMINING\_CERT\_TYPE = 8,  
GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_LAST = 9 }
- enum globus\_gsi\_cert\_utils\_cert\_type\_e {  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_DEFAULT = 0,  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_EEC = (1 << 0),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_CA = (1 << 1),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2 = (1 << 2),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3 = (1 << 3),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC = (1 << 4),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_FORMAT\_MASK,  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_IMPERSONATION\_PROXY = (1 << 5),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_LIMITED\_PROXY = (1 << 6),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RESTRICTED\_PROXY = (1 << 7),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_INDEPENDENT\_PROXY = (1 << 8),  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_PROXY\_MASK,  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_IMPERSONATION\_PROXY,  
GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_INDEPENDENT\_PROXY,

```

GLOBUS_GSI_CERT_UTILS_TYPE_GSI_3_LIMITED_PROXY,
GLOBUS_GSI_CERT_UTILS_TYPE_GSI_3_RESTRICTED_PROXY,
GLOBUS_GSI_CERT_UTILS_TYPE_GSI_2_PROXY,
GLOBUS_GSI_CERT_UTILS_TYPE_GSI_2_LIMITED_PROXY,
GLOBUS_GSI_CERT_UTILS_TYPE_RFC_IMPERSONATION_PROXY,
GLOBUS_GSI_CERT_UTILS_TYPE_RFC_INDEPENDENT_PROXY,
GLOBUS_GSI_CERT_UTILS_TYPE_RFC_LIMITED_PROXY,
GLOBUS_GSI_CERT_UTILS_TYPE_RFC_RESTRICTED_PROXY }

```

### 3.3.1 Typedef Documentation

#### 3.3.1.1 typedef enum globus\_gsi\_cert\_utils\_cert\_type\_e globus\_gsi\_cert\_utils\_cert\_type\_t

Certificate Types.

These certificate types are used to describe some properties of a certificate and to specify what type of proxy should be generated in the proxy core code. There are two non-proxy types of certificates understood by Globus: EEC (End-Entity Certificate) and CA (Certificate Authority Certificates), three proxy formats (GSI 2 "legacy" proxies, GSI 3 "Draft" proxies, and RFC 3820-compliant proxies), and four types of proxy (limited, impersonation "full", restricted, and independent). The latter two types are not expressible in the GSI 2 format.

In addition to enumerations for the concrete renderings of certificate format and type combined, there are default, formats-without-types and types-without-formats so that application logic which uses the proxy library can request default proxy formats which are compatible with the issuing certificate.

### 3.3.2 Enumeration Type Documentation

#### 3.3.2.1 enum globus\_gsi\_cert\_utils\_error\_t

Cert Utils Error Codes.

**Enumerator:**

```

GLOBUS_GSI_CERT_UTILS_ERROR_SUCCESS Success - never used.
GLOBUS_GSI_CERT_UTILS_ERROR_GETTING_NAME_ENTRY_OF_SUBJECT Failed to retrieve
    a subcomponent of the subject.
GLOBUS_GSI_CERT_UTILS_ERROR_COPYING_SUBJECT A error occured while trying to copy a
    X.509 subject.
GLOBUS_GSI_CERT_UTILS_ERROR_GETTING_CN_ENTRY Failed to retrieve a CN subcomponent
    of the subject.
GLOBUS_GSI_CERT_UTILS_ERROR_ADDING_CN_TO_SUBJECT Failed to add a CN component to
    a X.509 subject name.
GLOBUS_GSI_CERT_UTILS_ERROR_OUT_OF_MEMORY Out of memory.
GLOBUS_GSI_CERT_UTILS_ERROR_UNEXPECTED_FORMAT Something unexpected happen while
    converting a string subject to a X509_NAME structure.
GLOBUS_GSI_CERT_UTILS_ERROR_NON_COMPLIANT_PROXY Proxy does not comply with the
    expected format.
GLOBUS_GSI_CERT_UTILS_ERROR_DETERMINING_CERT_TYPE Couldn't determine the certifi-
    cate type.

```

***GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_LAST*** Last marker - never used.

### 3.3.2.2 enum globus\_gsi\_cert\_utils\_cert\_type\_e

Certificate Types.

These certificate types are used to describe some properties of a certificate and to specify what type of proxy should be generated in the proxy core code. There are two non-proxy types of certificates understood by Globus: EEC (End-Entity Certificate) and CA (Certificate Authority Certificates), three proxy formats (GSI 2 "legacy" proxies, GSI 3 "Draft" proxies, and RFC 3820-compliant proxies), and four types of proxy (limited, impersonation "full", restricted, and independent). The latter two types are not expressible in the GSI 2 format.

In addition to enumerations for the concrete renderings of certificate format and type combined, there are default, formats-without-types and types-without-formats so that application logic which uses the proxy library can request default proxy formats which are compatible with the issuing certificate.

**Enumerator:**

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_DEFAULT*** Default proxy type.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_EEC*** A end entity certificate.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_CA*** A CA certificate.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2*** Legacy Proxy Format.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3*** X.509 Proxy Certificate Profile (draft) Proxy Format.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC*** X.509 Proxy Certificate Profile Compliant Proxy Format.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_FORMAT\_MASK*** Proxy certificate formats mask.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_IMPERSONATION\_PROXY*** Impersonation proxy type.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_LIMITED\_PROXY*** Limited proxy type.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RESTRICTED\_PROXY*** Restricted proxy type.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_INDEPENDENT\_PROXY*** Independent proxy type.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_PROXY\_MASK*** Proxy types mask.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_IMPERSONATION\_PROXY*** A X.509 Proxy Certificate Profile (pre-RFC) compliant impersonation proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_INDEPENDENT\_PROXY*** A X.509 Proxy Certificate Profile (pre-RFC) compliant independent proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_LIMITED\_PROXY*** A X.509 Proxy Certificate Profile (pre-RFC) compliant limited proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_RESTRICTED\_PROXY*** A X.509 Proxy Certificate Profile (pre-RFC) compliant restricted proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2\_PROXY*** A legacy Globus impersonation proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2\_LIMITED\_PROXY*** A legacy Globus limited impersonation proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_IMPERSONATION\_PROXY*** A X.509 Proxy Certificate Profile RFC compliant impersonation proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_INDEPENDENT\_PROXY*** A X.509 Proxy Certificate Profile RFC compliant independent proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_LIMITED\_PROXY*** A X.509 Proxy Certificate Profile RFC compliant limited proxy.

***GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_RESTRICTED\_PROXY*** A X.509 Proxy Certificate Profile RFC compliant restricted proxy.

## Index

Activation, [1](#)

Cert Utils Constants, [3](#)

Cert Utils Functions, [2](#)

globus\_gsi\_cert\_utils\_constants

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_ADDING\_-  
        CN\_TO\_SUBJECT, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_COPYING\_-  
        SUBJECT, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_DETERMINING\_-  
        CERT\_TYPE, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_GETTING\_-  
        CN\_ENTRY, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_GETTING\_  
        NAME\_ENTRY\_OF\_SUBJECT, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_LAST, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_NON\_COMPLIANT\_  
        PROXY, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_OUT\_OF\_  
        MEMORY, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_SUCCESS,  
        [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_UNEXPECTED\_-  
        FORMAT, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_CA, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_DEFAULT,  
        [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_EEC, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_FORMAT\_-  
        MASK, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2\_LIMITED\_  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2\_PROXY,  
        [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_IMPERSONATION\_  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_INDEPENDENT\_  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_LIMITED\_  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_RESTRICTED\_  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_IMPERSONATION\_  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_INDEPENDENT\_  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_LIMITED\_-  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_PROXY\_MASK,  
        [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RESTRICTED\_-  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_IMPERSONATION\_  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_INDEPENDENT\_-  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_LIMITED\_-  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_RESTRICTED\_-  
        PROXY, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_ADDING\_CN\_-  
        TO\_SUBJECT

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_COPYING\_SUBJECT

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_DETERMINING\_-  
        CERT\_TYPE

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_GETTING\_CN\_-  
        ENTRY

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_GETTING\_NAME\_-  
        ENTRY\_OF\_SUBJECT

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_LAST

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_NON\_COMPLIANT\_-  
        PROXY

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_OUT\_OF\_MEMORY

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_SUCCESS

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_ERROR\_UNEXPECTED\_-  
        FORMAT

    globus\_gsi\_cert\_utils\_constants, [4](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_CA

    globus\_gsi\_cert\_utils\_constants, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_DEFAULT

    globus\_gsi\_cert\_utils\_constants, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_EEC

    globus\_gsi\_cert\_utils\_constants, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_FORMAT\_MASK

    globus\_gsi\_cert\_utils\_constants, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2

    globus\_gsi\_cert\_utils\_constants, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2\_LIMITED\_-

        PROXY

    globus\_gsi\_cert\_utils\_constants, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_2\_PROXY

    globus\_gsi\_cert\_utils\_constants, [5](#)

    GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3

- globus\_gsi\_cert\_utils\_constants, [5](#)
- globus\_gsi\_cert\_utils, [2](#)
- globus\_gsi\_cert\_utils\_get\_identity\_cert
- globus\_gsi\_cert\_utils, [2](#)
- GLOBUS\_GSI\_CERT\_UTILS\_MODULE
- globus\_gsi\_cert\_utils\_activation, [2](#)
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_INDEPENDENT\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_LIMITED\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_GSI\_3\_RESTRICTED\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_IMPERSONATION\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_INDEPENDENT\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_LIMITED\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_PROXY\_MASK
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RESTRICTED\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_IMPERSONATION\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_INDEPENDENT\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_LIMITED\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- GLOBUS\_GSI\_CERT\_UTILS\_TYPE\_RFC\_RESTRICTED\_PROXY
- globus\_gsi\_cert\_utils\_constants, [5](#)
- globus\_gsi\_cert\_utils
- globus\_gsi\_cert\_utils\_get\_eec, [2](#)
- globus\_gsi\_cert\_utils\_get\_identity\_cert, [2](#)
- globus\_gsi\_cert\_utils\_activation
- GLOBUS\_GSI\_CERT\_UTILS\_MODULE, [2](#)
- globus\_gsi\_cert\_utils\_cert\_type\_e
- globus\_gsi\_cert\_utils\_constants, [4](#)
- globus\_gsi\_cert\_utils\_cert\_type\_t
- globus\_gsi\_cert\_utils\_constants, [4](#)
- globus\_gsi\_cert\_utils\_constants
- globus\_gsi\_cert\_utils\_cert\_type\_e, [4](#)
- globus\_gsi\_cert\_utils\_cert\_type\_t, [4](#)
- globus\_gsi\_cert\_utils\_error\_t, [4](#)
- globus\_gsi\_cert\_utils\_error\_t
- globus\_gsi\_cert\_utils\_constants, [4](#)
- globus\_gsi\_cert\_utils\_get\_eec