

# globus gsi proxy ssl

## 4.1

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## 1 Globus GSI Proxy SSL API

The `globus_gsi_proxy_ssl` library provides the ability to create a `PROXYCERTINFO` extension for inclusion in an X509 certificate. The current specification for the extension is described in the Internet Draft Document: `draft-ietf-pkix-proxy-08.txt`

The library conforms to the ASN1 implementation in the `OPENSSL` library (0.9.6, formerly `SSLeay`), and provides an interface to convert from a DER encoded `PROXYCERTINFO` to its internal structure and vice-versa.

## 2 Module Index

### 2.1 Modules

Here is a list of all modules:

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## 3 Data Structure Index

### 3.1 Data Structures

Here are the data structures with brief descriptions:

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| <b>PROXYCERTINFO_st</b><br>This typedef maintains information about a proxy certificate | 13 |
| <b>PROXYPOLICY_st</b>   | 13 |

## 4 Module Documentation

### 4.1 ProxyCertInfo

#### Data Structures

- struct **PROXYCERTINFO\_st**

#### ASN1\_METHOD

- ASN1\_METHOD \* **PROXYCERTINFO\_asn1\_meth** ()

#### New

- **PROXYCERTINFO** \* **PROXYCERTINFO\_new** ()

#### Free.

- void **PROXYCERTINFO\_free** (**PROXYCERTINFO** \*cert\_info)

#### Duplicate

- **PROXYCERTINFO** \* **PROXYCERTINFO\_dup** (**PROXYCERTINFO** \*cert\_info)

#### Compare

- int **PROXYCERTINFO\_cmp** (const **PROXYCERTINFO** \*a, const **PROXYCERTINFO** \*b)

#### Print to a BIO stream

- int **PROXYCERTINFO\_print** (BIO \*bp, **PROXYCERTINFO** \*cert\_info)

#### Print To Stream

- int **PROXYCERTINFO\_print\_fp** (FILE \*fp, **PROXYCERTINFO** \*cert\_info)

#### Set the Policy Field

- int **PROXYCERTINFO\_set\_policy** (PROXYCERTINFO \*cert\_info, PROXPOLICY \*policy)

#### Get the Policy Field

- PROXPOLICY \* **PROXYCERTINFO\_get\_policy** (PROXYCERTINFO \*cert\_info)

#### Set the Path Length Field

- int **PROXYCERTINFO\_set\_path\_length** (PROXYCERTINFO \*cert\_info, long path\_length)

#### Get Path Length Field

- long **PROXYCERTINFO\_get\_path\_length** (PROXYCERTINFO \*cert\_info)

#### Convert PROXYCERTINFO to DER encoded form

- int **i2d\_PROXYCERTINFO** (PROXYCERTINFO \*cert\_info, unsigned char \*\*pp)

#### Convert a PROXYCERTINFO to internal form

- PROXYCERTINFO \* **d2i\_PROXYCERTINFO** (PROXYCERTINFO \*\*cert\_info, unsigned char \*\*pp, long length)

#### Convert old PROXYCERTINFO to DER encoded form

- int **i2d\_PROXYCERTINFO\_OLD** (PROXYCERTINFO \*cert\_info, unsigned char \*\*pp)

#### Convert a old PROXYCERTINFO to internal form

- PROXYCERTINFO \* **d2i\_PROXYCERTINFO\_OLD** (PROXYCERTINFO \*\*cert\_info, unsigned char \*\*pp, long length)

### 4.1.1 Detailed Description

#### Author

Sam Meder  
Sam Lang

The proxycertinfo.h file defines a method of maintaining information about proxy certificates.

### 4.1.2 Function Documentation

#### 4.1.2.1 ASN1\_METHOD\* PROXYCERTINFO\_asn1\_meth ( )

Define the functions required for manipulating a PROXYCERTINFO and its ASN1 form.

Creates an ASN1\_METHOD structure, which contains pointers to routines that convert any PROXYCERTINFO structure to its associated ASN1 DER encoded form and vice-versa.

## Returns

the ASN1\_METHOD object

References d2i\_PROXYCERTINFO(), i2d\_PROXYCERTINFO(), PROXYCERTINFO\_free(), and PROXYCERTINFO\_new().

### 4.1.2.2 PROXYCERTINFO\* PROXYCERTINFO\_new ( )

Create a new PROXYCERTINFO.

Allocates and initializes a new PROXYCERTINFO structure.

## Returns

pointer to the new PROXYCERTINFO

References PROXYPOLICY\_new().

### 4.1.2.3 void PROXYCERTINFO\_free ( PROXYCERTINFO \* cert\_info )

Free a PROXYCERTINFO.

## Parameters

|                  |   |
|------------------|---|
| <i>cert_info</i> | pointer to the PROXYCERTINFO structure to be freed. |
|------------------|---|

References PROXYPOLICY\_free().

### 4.1.2.4 PROXYCERTINFO\* PROXYCERTINFO\_dup ( PROXYCERTINFO \* cert\_info )

Makes a copy of a PROXYCERTINFO.

Makes a copy of a PROXYCERTINFO structure

## Parameters

|                  |                                     |
|------------------|-------------------------------------|
| <i>cert_info</i> | the PROXYCERTINFO structure to copy |
|------------------|-------------------------------------|

## Returns

the copied PROXYCERTINFO structure

References d2i\_PROXYCERTINFO(), and i2d\_PROXYCERTINFO().

### 4.1.2.5 int PROXYCERTINFO\_cmp ( const PROXYCERTINFO \* a, const PROXYCERTINFO \* b )

Compares two PROXYCERTINFO structures.

## Parameters

|          |   |
|----------|---|
| <i>a</i> | pointer to the first PROXYCERTINFO structure  |
| <i>b</i> | pointer to the second PROXYCERTINFO structure |

## Returns

an integer - the result of the comparison. The comparison compares each of the fields, so if any of those fields are not equal then a nonzero value is returned. Equality is indicated by returning a 0.

References PROXYPOLICY\_cmp().

#### 4.1.2.6 int PROXYCERTINFO\_print ( BIO \* *bp*, PROXYCERTINFO \* *cert\_info* )

print the PROXYCERTINFO structure to stdout

##### Parameters

|                  |                            |
|------------------|----------------------------|
| <i>bp</i>        | the BIO to print to        |
| <i>cert_info</i> | the PROXYCERTINFO to print |

##### Returns

1 on success, 0 on error

#### 4.1.2.7 int PROXYCERTINFO\_print\_fp ( FILE \* *fp*, PROXYCERTINFO \* *cert\_info* )

print the PROXYCERTINFO structure to the specified file stream

##### Parameters

|                  |                                      |
|------------------|--------------------------------------|
| <i>fp</i>        | the file stream (FILE *) to print to |
| <i>cert_info</i> | the PROXYCERTINFO structure to print |

##### Returns

the number of characters printed

References PROXYCERTINFO\_print().

#### 4.1.2.8 int PROXYCERTINFO\_set\_policy ( PROXYCERTINFO \* *cert\_info*, PROXYPOLICY \* *policy* )

Sets the policy on the PROXYCERTINFO Since this is an optional field in the ASN1 encoding, this variable can be set to NULL through this function - which means that when the PROXYCERTINFO is encoded the policy won't be included.

##### Parameters

|                  |   |
|------------------|---|
| <i>cert_info</i> | the PROXYCERTINFO object to set the policy of |
| <i>policy</i>    | the PROXYPOLICY to set it to                  |

##### Returns

1 if success, 0 if error

References PROXYPOLICY\_dup(), and PROXYPOLICY\_free().

#### 4.1.2.9 PROXYPOLICY\* PROXYCERTINFO\_get\_policy ( PROXYCERTINFO \* *cert\_info* )

Gets the policy on the PROXYCERTINFO.

##### Parameters

|                  |  |
|------------------|--|
| <i>cert_info</i> | the PROXYCERTINFO to get the policy of |
|------------------|--|

##### Returns

the PROXYPOLICY of the PROXYCERTINFO

#### 4.1.2.10 int PROXYCERTINFO\_set\_path\_length ( PROXYCERTINFO \* *cert\_info*, long *path\_length* )

Sets the path length of the PROXYCERTINFO.

The path length specifies the maximum depth of the path of the Proxy Certificates that can be signed by an End Entity Certificate (EEC) or Proxy Certificate.

Since this is an optional field in its ASN1 coded representation, it can be set to NULL through this function - which means that it won't be included in the encoding.

##### Parameters

|                    |  |
|--------------------|--|
| <i>cert_info</i>   | the PROXYCERTINFO to set the path length of  |
| <i>path_length</i> | the path length to set it to if -1 is passed in, the path length gets unset, which configures the PROXYCERTINFO to not include the path length in the DER encoding |

##### Returns

1 on success, 0 on error

#### 4.1.2.11 long PROXYCERTINFO\_get\_path\_length ( PROXYCERTINFO \* *cert\_info* )

Gets the path length of the PROXYCERTINFO.

##### See Also

**PROXYCERTINFO\_set\_path\_length** (p. 6)

##### Parameters

|                  |   |
|------------------|---|
| <i>cert_info</i> | the PROXYCERTINFO to get the path length from |
|------------------|---|

##### Returns

the path length of the PROXYCERTINFO, or -1 if not set

#### 4.1.2.12 int i2d\_PROXYCERTINFO ( PROXYCERTINFO \* *cert\_info*, unsigned char \*\* *pp* )

Converts the PROXYCERTINFO structure from internal format to a DER encoded ASN.1 string.

##### Parameters

|                  |  |
|------------------|--|
| <i>cert_info</i> | the PROXYCERTINFO structure to convert |
| <i>pp</i>        | the resulting DER encoded string       |

##### Returns

the length of the DER encoded string

References i2d\_PROXYPOLICY().

#### 4.1.2.13 PROXYCERTINFO\* d2i\_PROXYCERTINFO ( PROXYCERTINFO \*\* *cert\_info*, unsigned char \*\* *pp*, long *length* )

Convert from a DER encoded ASN.1 string of a PROXYCERTINFO to its internal structure.

#### Parameters

|                  |   |
|------------------|---|
| <i>cert_info</i> | the resulting PROXYCERTINFO in internal form              |
| <i>pp</i>        | the DER encoded ASN.1 string containing the PROXYCERTINFO |
| <i>length</i>    | the length of the buffer                                  |

#### Returns

the resulting PROXYCERTINFO in internal form

References d2i\_PROXYPOLICY(), PROXYCERTINFO\_free(), and PROXYCERTINFO\_new().

4.1.2.14 int i2d\_PROXYCERTINFO\_OLD ( PROXYCERTINFO \* *cert\_info*, unsigned char \*\* *pp* )

Converts the old PROXYCERTINFO structure from internal format to a DER encoded ASN.1 string.

#### Parameters

|                  |  |
|------------------|--|
| <i>cert_info</i> | the old PROXYCERTINFO structure to convert |
| <i>pp</i>        | the resulting DER encoded string           |

#### Returns

the length of the DER encoded string

References i2d\_PROXYPOLICY().

4.1.2.15 PROXYCERTINFO\* d2i\_PROXYCERTINFO\_OLD ( PROXYCERTINFO \*\* *cert\_info*, unsigned char \*\* *pp*, long *length* )

Convert from a DER encoded ASN.1 string of a old PROXYCERTINFO to its internal structure.

#### Parameters

|                  |   |
|------------------|---|
| <i>cert_info</i> | the resulting old PROXYCERTINFO in internal form              |
| <i>pp</i>        | the DER encoded ASN.1 string containing the old PROXYCERTINFO |
| <i>length</i>    | the length of the buffer                                      |

#### Returns

the resulting old PROXYCERTINFO in internal form

References d2i\_PROXYPOLICY(), and PROXYCERTINFO\_new().



## 4.2 ProxyPolicy

### Data Structures

- struct **PROXYPOLICY\_st**

### Get a method for ASN1 conversion

- ASN1\_METHOD \* **PROXYPOLICY\_asn1\_meth** ()

### New

- **PROXYPOLICY** \* **PROXYPOLICY\_new** ()

### Free

- void **PROXYPOLICY\_free** (**PROXYPOLICY** \*policy)

### Duplicate

- **PROXYPOLICY** \* **PROXYPOLICY\_dup** (**PROXYPOLICY** \*policy)

### Compare

- int **PROXYPOLICY\_cmp** (const **PROXYPOLICY** \*a, const **PROXYPOLICY** \*b)

### Print to a BIO stream

- int **PROXYPOLICY\_print** (BIO \*bp, **PROXYPOLICY** \*policy)

### Print to a File Stream

- int **PROXYPOLICY\_print\_fp** (FILE \*fp, **PROXYPOLICY** \*policy)

### Set the Policy Language Field

- int **PROXYPOLICY\_set\_policy\_language** (**PROXYPOLICY** \*policy, ASN1\_OBJECT \*policy\_language)

### Get the Policy Language Field

- ASN1\_OBJECT \* **PROXYPOLICY\_get\_policy\_language** (**PROXYPOLICY** \*policy)

### Set the Policy Field

- int **PROXYPOLICY\_set\_policy** (**PROXYPOLICY** \*proxypolicy, unsigned char \*policy, int length)

### Get the Policy Field

- unsigned char \* **PROXYPOLICY\_get\_policy** (**PROXYPOLICY** \*policy, int \*length)

Convert from Internal to DER encoded form

- int **i2d\_PROXYPOLICY** (**PROXYPOLICY** \*a, unsigned char \*\*pp)

Convert from DER encoded form to Internal

- **PROXYPOLICY** \* **d2i\_PROXYPOLICY** (**PROXYPOLICY** \*\*a, unsigned char \*\*pp, long length)

#### 4.2.1 Detailed Description

##### Author

Sam Meder  
Sam Lang

The proxypolicy set of data structures and functions provides an interface to generating a PROXYPOLICY structure which is maintained as a field in the PROXYCERTINFO structure, and ultimately gets written to a DER encoded string.

##### See Also

Further Information about proxy policies is available in the X.509 Proxy Certificate Profile document.

#### 4.2.2 Function Documentation

##### 4.2.2.1 ASN1\_METHOD\* PROXYPOLICY\_asn1\_meth ( )

Creates an ASN1\_METHOD structure, which contains pointers to routines that convert any PROXYPOLICY structure to its associated ASN1 DER encoded form and vice-versa.

##### Returns

the ASN1\_METHOD object

References d2i\_PROXYPOLICY(), i2d\_PROXYPOLICY(), PROXYPOLICY\_free(), and PROXYPOLICY\_new().

##### 4.2.2.2 PROXYPOLICY\* PROXYPOLICY\_new ( )

Allocates and initializes a new PROXYPOLICY structure.

##### Returns

pointer to the new PROXYPOLICY

##### 4.2.2.3 void PROXYPOLICY\_free ( PROXYPOLICY \* policy )

Frees a PROXYPOLICY.

##### Parameters

|               |                          |
|---------------|--------------------------|
| <i>policy</i> | the proxy policy to free |
|---------------|--------------------------|

#### 4.2.2.4 PROXYPOLICY\* PROXYPOLICY\_dup ( PROXYPOLICY \* *policy* )

Makes a copy of the proxypolicy - this function allocates space for a new PROXYPOLICY, so the returned PROXYPOLICY must be freed when its no longer needed.

##### Parameters

|               |                          |
|---------------|--------------------------|
| <i>policy</i> | the proxy policy to copy |
|---------------|--------------------------|

##### Returns

the new PROXYPOLICY

References d2i\_PROXYPOLICY(), and i2d\_PROXYPOLICY().

#### 4.2.2.5 int PROXYPOLICY\_cmp ( const PROXYPOLICY \* *a*, const PROXYPOLICY \* *b* )

Compares two PROXYPOLICY structs for equality This function first compares the policy language numeric id's, if they're equal, it then compares the two policies.

##### Returns

0 if equal, nonzero if not

#### 4.2.2.6 int PROXYPOLICY\_print ( BIO \* *bp*, PROXYPOLICY \* *policy* )

Prints the PROXYPOLICY struct using the BIO stream.

##### Parameters

|               |                            |
|---------------|----------------------------|
| <i>bp</i>     | the BIO stream to print to |
| <i>policy</i> | the PROXYPOLICY to print   |

##### Returns

1 on success, 0 on error

#### 4.2.2.7 int PROXYPOLICY\_print\_fp ( FILE \* *fp*, PROXYPOLICY \* *policy* )

Prints the PROXYPOLICY to the file stream FILE\*.

##### Parameters

|               |                              |
|---------------|------------------------------|
| <i>fp</i>     | the FILE* stream to print to |
| <i>policy</i> | the PROXYPOLICY to print     |

##### Returns

number of bytes printed, -2 or -1 on error

References PROXYPOLICY\_print().

#### 4.2.2.8 int PROXYPOLICY\_set\_policy\_language ( PROXYPOLICY \* *policy*, ASN1\_OBJECT \* *policy\_language* )

Sets the policy language of the PROXYPOLICY.

#### Parameters

|                        |   |
|------------------------|---|
| <i>policy</i>          | the PROXYPOLICY to set the policy language of |
| <i>policy_language</i> | the policy language to set it to              |

#### Returns

1 on success, 0 on error

#### 4.2.2.9 ASN1\_OBJECT\* PROXYPOLICY\_get\_policy\_language ( PROXYPOLICY \* *policy* )

Gets the policy language of the PROXYPOLICY.

#### Parameters

|               |  |
|---------------|--|
| <i>policy</i> | the proxy policy to get the policy language of |
|---------------|--|

#### Returns

the policy language as an ASN1\_OBJECT

#### 4.2.2.10 int PROXYPOLICY\_set\_policy ( PROXYPOLICY \* *proxypolicy*, unsigned char \* *policy*, int *length* )

Sets the policy of the PROXYPOLICY.

#### Parameters

|                    |                                       |
|--------------------|---------------------------------------|
| <i>proxypolicy</i> | the proxy policy to set the policy of |
| <i>policy</i>      | the policy to set it to               |
| <i>length</i>      | the length of the policy              |

#### Returns

1 on success, 0 on error

#### 4.2.2.11 unsigned char\* PROXYPOLICY\_get\_policy ( PROXYPOLICY \* *policy*, int \* *length* )

Gets the policy of a PROXYPOLICY.

#### Parameters

|               |  |
|---------------|--|
| <i>policy</i> | the PROXYPOLICY to get the policy of                                     |
| <i>length</i> | the length of the returned policy - this value gets set by this function |

#### Returns

the policy

#### 4.2.2.12 int i2d\_PROXYPOLICY ( PROXYPOLICY \* *a*, unsigned char \*\* *pp* )

Converts a PROXYPOLICY from its internal structure to a DER encoded form.

#### Parameters

|           |                                       |
|-----------|---------------------------------------|
| <i>a</i>  | the PROXYPOLICY to convert            |
| <i>pp</i> | the buffer to put the DER encoding in |

#### Returns

the length of the DER encoding in bytes

#### 4.2.2.13 PROXYPOLICY\* d2i\_PROXYPOLICY ( PROXYPOLICY \*\* *a*, unsigned char \*\* *pp*, long *length* )

Converts the PROXYPOLICY from its DER encoded form to an internal PROXYPOLICY structure.

#### Parameters

|               |  |
|---------------|--|
| <i>a</i>      | the PROXYPOLICY struct to set                |
| <i>pp</i>     | the DER encoding to get the PROXYPOLICY from |
| <i>length</i> | the length of the DER encoding               |

#### Returns

the resulting PROXYPOLICY in its internal structure form - this variable has been allocated using `_new` routines, so it needs to be freed once its no longer used

References `PROXYPOLICY_free()`, and `PROXYPOLICY_new()`.

## 5 Data Structure Documentation

### 5.1 PROXYCERTINFO\_st Struct Reference

#### 5.1.1 Detailed Description

This typedef maintains information about a proxy certificate.

#### Note

NOTE: The API provides functions to manipulate the fields of a PROXYCERTINFO. Accessing the fields directly is not a good idea.

#### Parameters

|                    |   |
|--------------------|---|
| <i>path_length</i> | an optional field in the ANS.1 DER encoding, it specifies the maximum depth of the path of Proxy Certificates that can be signed by this End Entity Certificate or Proxy Certificate. |
| <i>policy</i>      | a non-optional field in the ANS.1 DER encoding, specifies policies on the use of this certificate.  |

### 5.2 PROXYPOLICY\_st Struct Reference

#### 5.2.1 Detailed Description

#### Note

NOTE: The API provides functions to manipulate the fields of a PROXYPOLICY. Accessing the fields directly will not work.

This typedef maintains information about the policies that have been placed on a proxy certificate

#### Parameters

|                        |  |
|------------------------|--|
| <i>policy_language</i> | defines which policy language is to be used to define the policies |
| <i>policy</i>          | the policy that determines the policies on a certificate           |

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