

# globus gssapi gsi Reference Manual

## 7.0

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## 1 globus gssapi gsi Module Index

### 1.1 globus gssapi gsi Modules

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## 3 globus gssapi gsi Module Documentation

### 3.1 Functions for manipulating a buffer set

Create Empty Buffer Set

- [OM\\_uint32 gss\\_create\\_empty\\_buffer\\_set\(OM\\_uint32 minor\\_status, gss\\_buffer\\_set\\_t buffer\\_set\)](#)

Add Buffer

- [OM\\_uint32 gss\\_add\\_buffer\\_set\\_member\(OM\\_uint32 minor\\_status, const gss\\_buffer\\_t member\\_buffer, gss\\_buffer\\_set\\_t buffer\\_set\)](#)

## Free Buffer Set

- [OM\\_uint32 gss\\_release\\_buffer\\_set](#) (OM\_uint32 minor\_status, gss\_buffer\_set\_t buffer\_set)

## 3.1.1 Function Documentation

## 3.1.1.1 OM\_uint32 gss\_create\_empty\_buffer\_set (OM\_uint32 minor\_status, gss\_buffer\_set\_t buffer\_set)

Create a empty buffer set.

This function allocates and initializes a empty buffer set. The memory allocated in this function should be freed by a call to [gss\\_release\\_buffer\\_set](#).

## Parameters:

minor\_status The minor status returned by this function. This paramter will be 0 upon success.

buffer\_set Pointer to a buffer set structure.

## Returns:

GSS\_S\_COMPLETE upon success GSS\_S\_FAILURE failure

## See also:

[gss\\_add\\_buffer\\_set\\_member](#)  
[gss\\_release\\_buffer\\_set](#)

## 3.1.1.2 OM\_uint32 gss\_add\_buffer\_set\_member (OM\_uint32 minor\_status, const gss\_buffer\_t member\_buffer, gss\_buffer\_set\_t buffer\_set)

Add a buffer to a buffer set.

This function allocates a new [gss\\_buffer\\_t](#), intializes it with the values in the member\_buffer parameter.

## Parameters:

minor\_status The minor status returned by this function. This paramter will be 0 upon success.

member\_buffer Buffer to insert into the buffer set.

buffer\_set Pointer to a initialized buffer set structure.

## Returns:

GSS\_S\_COMPLETE upon success GSS\_S\_FAILURE failure

## See also:

[gss\\_create\\_empty\\_buffer\\_set](#)  
[gss\\_release\\_buffer\\_set](#)

## 3.1.1.3 OM\_uint32 gss\_release\_buffer\_set (OM\_uint32 minor\_status, gss\_buffer\_set\_t buffer\_set)

Free all memory associated with a buffer set.

This function will free all memory associated with a buffer set. Note that it will also free all memory associated with the buffers int the buffer set.

## Parameters:

minor\_status The minor status returned by this function. This paramter will be 0 upon success.

`buffer_set` Pointer to a buffer set structure. This pointer will point at a NULL value upon return.

Returns:

`GSS_S_COMPLETE` upon success `GSS_S_FAILURE` failure

See also:

[gss\\_create\\_empty\\_buffer\\_set](#)  
[gss\\_add\\_buffer\\_set\\_member](#)

## 3.2 GSI GSS-API Constants

### 3.3 Activation

Globus GSI GSSAPI uses standard Globus module activation and deactivation.

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- #define [GLOBUS\\_GSI\\_GSSAPI\\_MODULE](#)

#### 3.3.1 Detailed Description

Globus GSI GSSAPI uses standard Globus module activation and deactivation.

Before any Globus GSI GSSAPI functions are called, the following function should be called:

```
globus_module_activate(GLOBUS_GSI_GSSAPI_MODULE)
```

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

To deactivate Globus GSI GSSAPI, the following function should be called:

```
globus_module_deactivate(GLOBUS_GSI_GSSAPI_MODULE)
```

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

Note that it is not mandatory to call the above functions.

#### 3.3.2 De ne Documentation

##### 3.3.2.1 #define GLOBUS\_GSI\_GSSAPI\_MODULE

Module descriptor.

## 3.4 GSS Req Flags

These macros set the `REQUESTED` type of context - these should be set (or not) in the context's `req_ags` (or in the context's `ret_ags` if `accept_sec_context` is being called).

[NOHEADER]

- `#define GSS_C_GLOBUS_DELEGATE_LIMITED_PROXY_FLAG 4096`

[NOHEADER]

- `#define GSS_C_GLOBUS_ACCEPT_PROXY_SIGNED_BY_LIMITED_PROXY_FLAG 32768`

Defines

- `#define GSS_C_GLOBUS_DONT_ACCEPT_LIMITED_PROXY_FLAG 8192`

### 3.4.1 Detailed Description

These macros set the REQUESTED type of context - these should be set (or not) in the context's req\_ags (or in the context's ret\_ags if accept\_sec\_context is being called).

### 3.4.2 Define Documentation

#### 3.4.2.1 `#define GSS_C_GLOBUS_DONT_ACCEPT_LIMITED_PROXY_FLAG 8192`

Set if you don't want a context to accept a limited proxy.

If this ag is set, and a limited proxy is received, the call will not be successful and the context will not be set up

#### 3.4.2.2 `#define GSS_C_GLOBUS_DELEGATE_LIMITED_PROXY_FLAG 4096`

Set if you want the delegated proxy to be a limited proxy.

#### 3.4.2.3 `#define GSS_C_GLOBUS_ACCEPT_PROXY_SIGNED_BY_LIMITED_PROXY_FLAG 32768`

Set if you want to accept proxies signed by limited proxies.

### Deprecated

We now accept proxies signed by limited proxies if they are limited or independent.

## 3.5 GSS Ret Flags

These macros set the RETURNED context type - these will be set (or not) in the context's ret\_ags.

[NOHEADER]

- `#define GSS_C_GLOBUS_RECEIVED_LIMITED_PROXY_DURING_DELEGATION_FLAG 4096`

Defines

- `#define GSS_C_GLOBUS_RECEIVED_LIMITED_PROXY_FLAG 8192`

### 3.5.1 Detailed Description

These macros set the RETURNED context type - these will be set (or not) in the context's ret\_ags.

### 3.5.2 Define Documentation

#### 3.5.2.1 #define GSS\_C\_GLOBUS\_RECEIVED\_LIMITED\_PROXY\_FLAG 8192

If the proxy received is a limited proxy, this ag will be set in the returned context ags (ret\_ags).

#### 3.5.2.2 #define GSS\_C\_GLOBUS\_RECEIVED\_LIMITED\_PROXY\_DURING\_DELEGATION\_FLAG 4096

If the proxy received is a limited proxy received during delegation, this ag is set in the returned ags.

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### 4.1 Deprecated List

Global [GSS\\_C\\_GLOBUS\\_ACCEPT\\_PROXY\\_SIGNED\\_BY\\_LIMITED\\_PROXY\\_FLAG](#) We now accept proxies signed by limited proxies if they are limited or independent.

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