

globus gssapi gsi Reference Manual

10.2

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Contents

1	globus gssapi gsi Module Index	1
2	globus gssapi gsi Page Index	1
3	globus gssapi gsi Module Documentation	1
4	globus gssapi gsi Page Documentation	5

1 globus gssapi gsi Module Index

1.1 globus gssapi gsi Modules

Here is a list of all modules:

Functions for manipulating a buffer set	1
GSII GSS-API Constants	3
Activation	3
GSS Req Flags	3
GSS Ret Flags	4

2 globus gssapi gsi Page Index

2.1 globus gssapi gsi Related Pages

Here is a list of all related documentation pages:

Deprecated List	5
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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(p. 2)

gss_release_buffer_set(p. 2)

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(p. 2)

gss_release_buffer_set(p. 2)

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`(p. 2)

`gss_add_buffer_set_member`(p. 2)

3.2 GSI GSS-API Constants

3.3 Activation

Globus GSI GSSAPI uses standard Globus module activation and deactivation.

Defines

- `#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 Define 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_flags` (or in the context's `ret_flags` 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**

[NOHEADER]

- **#define GSS_C_GLOBUS_ALLOW_MISSING_SIGNING_POLICY 65536**

[NOHEADER]

- **#define GSS_C_GLOBUS_FORCE_SSL3 131072**

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_flags (or in the context's ret_flags 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 flag 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.

3.4.2.4 **#define GSS_C_GLOBUS_ALLOW_MISSING_SIGNING_POLICY 65536**

Set if you want to allow CA certs without a signing policy to verify.

3.4.2.5 **#define GSS_C_GLOBUS_FORCE_SSL3 131072**

Set if you want to force SSLv3 instead of negotiating TLSv1 or SSLv3.

3.5 GSS Ret Flags

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

[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_flags.

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 flag will be set in the returned context flags (ret_flags).

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 flag is set in the returned flags.

4 globus gssapi gsi Page Documentation

4.1 Deprecated List

Global `GSS_C_GLOBUS_ACCEPT_PROXY_SIGNED_BY_LIMITED_PROXY_FLAG`(p. 4) We now accept proxies signed by limited proxies if they are limited or independent.

Index

Activation, 3

Functions for manipulating a buffer set, 1

globus_gsi_gss_requested_context_flags

GSS_C_GLOBUS_ACCEPT_PROXY_-
SIGNED_BY_LIMITED_PROXY_-
FLAG, 4

GSS_C_GLOBUS_ALLOW_MISSING_-
SIGNING_POLICY, 4

GSS_C_GLOBUS_DELEGATE_LIMITED_-
PROXY_FLAG, 4

GSS_C_GLOBUS_DONT_ACCEPT_-
LIMITED_PROXY_FLAG, 4

GSS_C_GLOBUS_FORCE_SSL3, 4

globus_gsi_gss_returned_context_flags

GSS_C_GLOBUS_RECEIVED_LIMITED_-
PROXY_DURING_DELEGATION_-
FLAG, 5

GSS_C_GLOBUS_RECEIVED_LIMITED_-
PROXY_FLAG, 5

globus_gsi_gssapi_activation

GLOBUS_GSI_GSSAPI_MODULE, 3

globus_gsi_gssapi_buffer_set

gss_add_buffer_set_member, 2

gss_create_empty_buffer_set, 2

gss_release_buffer_set, 2

GLOBUS_GSI_GSSAPI_MODULE

globus_gsi_gssapi_activation, 3

GSI GSS-API Constants, 3

GSS Req Flags, 3

GSS Ret Flags, 4

gss_add_buffer_set_member

globus_gsi_gssapi_buffer_set, 2

GSS_C_GLOBUS_ACCEPT_PROXY_SIGNED_-
BY_LIMITED_PROXY_FLAG

globus_gsi_gss_requested_context_flags, 4

GSS_C_GLOBUS_ALLOW_MISSING_-
SIGNING_POLICY

globus_gsi_gss_requested_context_flags, 4

GSS_C_GLOBUS_DELEGATE_LIMITED_-
PROXY_FLAG

globus_gsi_gss_requested_context_flags, 4

GSS_C_GLOBUS_DONT_ACCEPT_LIMITED_-
PROXY_FLAG

globus_gsi_gss_requested_context_flags, 4

GSS_C_GLOBUS_FORCE_SSL3

globus_gsi_gss_requested_context_flags, 4

GSS_C_GLOBUS_RECEIVED_LIMITED_-
PROXY_DURING_DELEGATION_-
FLAG

globus_gsi_gss_returned_context_flags, 5

GSS_C_GLOBUS_RECEIVED_LIMITED_-
PROXY_FLAG

globus_gsi_gss_returned_context_flags, 5

gss_create_empty_buffer_set

globus_gsi_gssapi_buffer_set, 2

gss_release_buffer_set

globus_gsi_gssapi_buffer_set, 2