

globus gssapi gsi Reference Manual

5.9

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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.createemptybuffer.set(OM_uint32 minor_status, gss_buffer_set_t buffer_set)
```

Add Buffer

```
OM_uint32 gss.addbuffer.setmember(OM_uint32 minor_status, const gss_buffer_t memberbuffer, gss_buffer_set_t buffer_set)
```

Free Buffer Set

```
OM_uint32 gssreleasebuffer_set(OM_uint32 minor_status, gssbuffer_set_t buffer_set)
```

3.1.1 Function Documentation

```
3.1.1.1 OM_uint32 gsscreateemptybuffer_set(OM_uint32 minor_status, gssbuffer_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 `gssreleasebuffer_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:

GSSS.COMPLETE upon success GSSS.FAILURE failure

See also:

[gssaddbuffer_set_member](#), [gssreleasebuffer_set](#)

```
3.1.1.2 OM_uint32 gssaddbuffer_set_member(OM_uint32 minor_status, const gssbuffer_t memberbuffer, gssbuffer_set_t buffer_set)
```

Add a buffer to a buffer set.

This function allocates a new `gssbuffer_t`, intializes it with the values in the `memberbuffer` parameter.

Parameters:

`minor_status` The minor status returned by this function. This paramter will be 0 upon success.

`memberbuffer` Buffer to insert into the buffer set.

`buffer_set` Pointer to a initialized buffer set structure.

Returns:

GSSS.COMPLETE upon success GSSS.FAILURE failure

See also:

[gsscreateemptybuffer_set](#), [gssreleasebuffer_set](#)

```
3.1.1.3 OM_uint32 gssreleasebuffer_set(OM_uint32 minor_status, gssbuffer_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:

GSSS.COMPLETE upon success GSS.FAILURE failure

See also:

[gsscreateemptybuffer_set](#), [gssaddbuffer_setmember](#)

3.2 GSI GSS-API Constants

3.3 Activation

Globus GSI GSSAPI uses standard Globus module activation and deactivation.

De nes

```
#de ne GLOBUS\_GSI\_GSSAPIMODULE
```

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 #de ne GLOBUSGSI_GSSAPIMODULE

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 if acceptseccontext is being called).

[NOHEADER]

```
#de ne GSSC\_GLOBUS\_DELEGATE\_LIMITED\_PROXY\_FLAG 4096
```

[NOHEADER]

```
#define GSSC_GLOBUS_ACCEPT_PROXY_SIGNED_BY_LIMITED_PROXY_FLAG 32768
```

Defines

```
#define GSSC_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 ret flags (or in the context's ret flags if acceptseccontext is being called).

3.4.2 Define Documentation

3.4.2.1 `#define GSSC_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 GSSC_GLOBUS_DELEGATE_LIMITED_PROXY_FLAG 4096`

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

3.4.2.3 `#define GSSC_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 flags.

[NOHEADER]

```
#define GSSC_GLOBUS_RECEIVED_LIMITED_PROXY_DURING_DELEGATION_FLAG 4096
```

Defines

```
#define GSSC_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 De ne Documentation

3.5.2.1 #de ne GSSC_GLOBUS_RECEIVED_LIMITED_PROXY_FLAG 8192

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

3.5.2.2 #de ne GSSC_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 [GSSC_GLOBUS_LIMITED_PROXY_MANY_FLAG](#) We now accept proxies signed by limited proxies if they are limited or independent.

Global [GSSC_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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