globus gssapi gsi Reference Manual

10.2

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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 wan 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 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 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.

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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.

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