

globus xio gsi driver
2.3

Generated by Doxygen 1.8.4

Sat Aug 10 2013 07:46:39

Contents

1	Module Index	1
1.1	Modules	1
2	Module Documentation	2
2.1	Globus XIO GSI Driver	2
2.1.1	Detailed Description	2
2.2	Opening/Closing	3
2.3	Reading/Writing	4
2.4	Server	5
2.5	Env Variables	6
2.6	Attributes and Cntls	7
2.6.1	Detailed Description	9
2.6.2	Enumeration Type Documentation	9
2.6.3	Function Documentation	10
2.7	Types	21
2.7.1	Detailed Description	21
2.7.2	Typedef Documentation	21
2.7.3	Enumeration Type Documentation	22
2.8	Error Types	23
2.8.1	Detailed Description	23
2.8.2	Enumeration Type Documentation	23
	Index	24

1 Module Index

1.1 Modules

Here is a list of all modules:

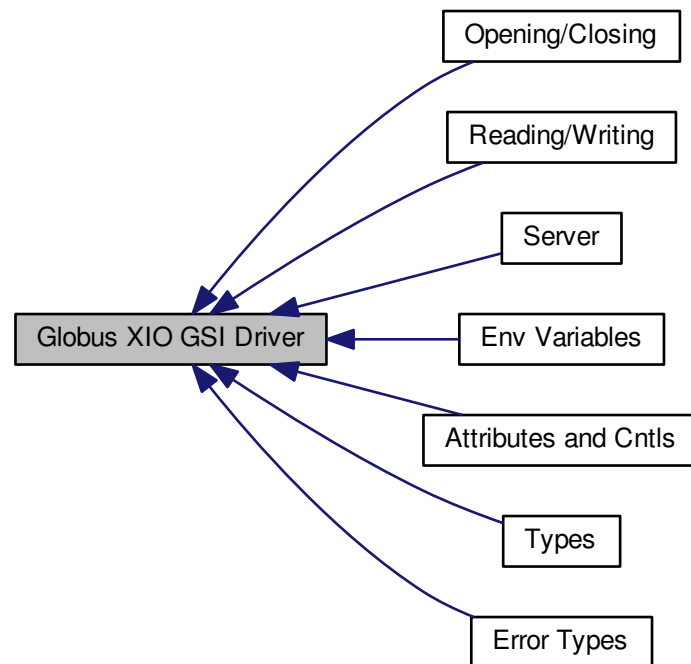
Globus XIO GSI Driver	2
Opening/Closing	3
Reading/Writing	4
Server	5
Env Variables	6
Attributes and Cntls	7

Types	21
Error Types	23

2 Module Documentation

2.1 Globus XIO GSI Driver

Collaboration diagram for Globus XIO GSI Driver:



Modules

- **Opening/Closing**
- **Reading/Writing**
- **Server**
- **Env Variables**
- **Attributes and Cntls**
- **Types**
- **Error Types**

2.1.1 Detailed Description

The GSI driver.

2.2 Opening/Closing

Collaboration diagram for Opening/Closing:



An XIO handle with the gsi driver can be created with either `globus_xio_handle_create ()` or `globus_xio_server_register_accept ()`. If the handle is created with `globus_xio_server_register_accept ()`, the `globus_xio_register_open ()` call will proceed to accept a GSSAPI security context. Upon successful completion of the open, ie after the open callback has been called, the application may proceed to read or write data associated with the GSI session.

If the handle is created with `globus_xio_handle_create ()`, then the XIO handle will implement the client-side (init) of the GSSAPI call sequence and establish a security context with the accepting side indicated by the `contact_string` passed to `globus_xio_register_open ()`.

2.3 Reading/Writing

Collaboration diagram for Reading/Writing:



The GSI driver behaves similar to the underlying transport driver with respect to reads and writes, except for the try-read and try-write operations (ie. waitforbytes ==0) which always return immediately. This is due to the fact that the security layer needs to read and write tokens of a certain minimal size and thus needs to rely on the underlying transport to handle greater than 0 reads/write which is not possible in "try" mode.

2.4 Server

Collaboration diagram for Server:



globus_xio_server_create() causes a new transport-specific listener socket to be created to handle new GSI connections. **globus_xio_server_register_accept()** will accept a new connection for processing. **globus_xio_server_register_close()** cleans up the internal resources associated with the http server and calls close on the listener.

All accepted handles inherit all gsi specific attributes set in the attr to **globus_xio_server_create()**, but can be overridden with the attr to **globus_xio_register_open()**. Furthermore, accepted handles will use the GSSAPI accept security context call unless explicitly overridden during the **globus_xio_register_open()** call (GLOBUS_XIO_GSI_FORCE_SERVER_MODE).

2.5 Env Variables

Collaboration diagram for Env Variables:



The gsi driver uses the following environment variables.

- X509_USER_PROXY
- X509_USER_CERT
- X509_USER_KEY
- X509_CERT_DIR

For details see `Globus: GSI Environment Variables`

2.6 Attributes and Cntls

Collaboration diagram for Attributes and Cntls:



Enumerations

- enum **globus_xio_gsi_cmd_t** {
 GLOBUS_XIO_GSI_SET_CREDENTIAL,
 GLOBUS_XIO_GSI_GET_CREDENTIAL,
 GLOBUS_XIO_GSI_SET_GSSAPI_REQ_FLAGS,
 GLOBUS_XIO_GSI_GET_GSSAPI_REQ_FLAGS,
 GLOBUS_XIO_GSI_SET_PROXY_MODE,
 GLOBUS_XIO_GSI_GET_PROXY_MODE,
 GLOBUS_XIO_GSI_SET_AUTHORIZATION_MODE,
 GLOBUS_XIO_GSI_GET_AUTHORIZATION_MODE,
 GLOBUS_XIO_GSI_SET_DELEGATION_MODE,
 GLOBUS_XIO_GSI_GET_DELEGATION_MODE,
 GLOBUS_XIO_GSI_SET_SSL_COMPATIBLE,
 GLOBUS_XIO_GSI_SET_ANON,
 GLOBUS_XIO_GSI_SET_WRAP_MODE,
 GLOBUS_XIO_GSI_GET_WRAP_MODE,
 GLOBUS_XIO_GSI_SET_BUFFER_SIZE,
 GLOBUS_XIO_GSI_GET_BUFFER_SIZE,
 GLOBUS_XIO_GSI_SET_PROTECTION_LEVEL,
 GLOBUS_XIO_GSI_GET_PROTECTION_LEVEL,
 GLOBUS_XIO_GSI_GET_TARGET_NAME,
 GLOBUS_XIO_GSI_SET_TARGET_NAME,
 GLOBUS_XIO_GSI_GET_CONTEXT,
 GLOBUS_XIO_GSI_GET_DELEGATED_CRED,
 GLOBUS_XIO_GSI_GET_PEER_NAME,
 GLOBUS_XIO_GSI_GET_LOCAL_NAME,
 GLOBUS_XIO_GSI_INIT_DELEGATION,
 GLOBUS_XIO_GSI_REGISTER_INIT_DELEGATION,
 GLOBUS_XIO_GSI_ACCEPT_DELEGATION,
 GLOBUS_XIO_GSI_REGISTER_ACCEPT_DELEGATION,
 GLOBUS_XIO_GSI_FORCE_SERVER_MODE,
 GLOBUS_XIO_GSI_SET_ALLOW_MISSING_SIGNING_POLICY,
 GLOBUS_XIO_GSI_GET_ALLOW_MISSING_SIGNING_POLICY }

Functions

- globus_result_t globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_CREDENTIAL**, gss_cred_id_t credential)

- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_SET_CREDENTIAL**, gss_cred_id_t credential)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_CREDENTIAL**, gss_cred_id_t *credential)
- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_GET_CREDENTIAL**, gss_cred_id_t *credential)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_GSSAPI_REQ_FLAGS**, OM_uint32 req_flags)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_GSSAPI_REQ_FLAGS**, OM_uint32 *req_flags)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_PROXY_MODE**, globus_xio_gsi_proxy_mode_t proxy_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_PROXY_MODE**, globus_xio_gsi_proxy_mode_t *proxy_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_AUTHORIZATION_MODE**, globus_xio_gsi_authorization_mode_t authz_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_AUTHORIZATION_MODE**, globus_xio_gsi_authorization_mode_t *authz_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_DELEGATION_MODE**, globus_xio_gsi_delegation_mode_t delegation_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_DELEGATION_MODE**, globus_xio_gsi_delegation_mode_t *delegation_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_SSL_COMPATIBLE**, globus_bool_t ssl_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_ANON**, globus_bool_t anon_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_WRAP_MODE**, globus_boolean_t wrap_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_WRAP_MODE**, globus_boolean_t *wrap_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_BUFFER_SIZE**, globus_size_t buffer_size)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_BUFFER_SIZE**, globus_size_t *buffer_size)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_PROTECTION_LEVEL**, globus_xio_gsi_protection_level_t protection_level)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_PROTECTION_LEVEL**, globus_xio_gsi_protection_level_t *protection_level)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_TARGET_NAME**, gss_name_t *target_name)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_TARGET_NAME**, gss_name_t target_name)
- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_GET_CONTEXT**, gss_ctx_id_t *context)
- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_GET_DELEGATED_CRED**, gss_cred_id_t *credential)
- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_GET_PEER_NAME**, gss_name_t *peer_name)
- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_GET_LOCAL_NAME**, gss_name_t *local_name)
- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_INIT_DELEGATION**, gss_cred_id_t credential, gss_OID_set restriction_oids, gss_buffer_set_t restriction_buffers, OM_uint32 time_req)

- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_REGISTER_INIT_DELEGATION**, gss_cred_id_t credential, gss_OID_set restriction_oids, gss_buffer_set_t restriction_buffers, OM_uint32 time_req, **globus_xio_gsi_delegation_init_callback_t** callback, void *callback_arg)
- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_ACCEPT_DELEGATION**, gss_cred_id_t *credential, gss_OID_set restriction_oids, gss_buffer_set_t restriction_buffers, OM_uint32 time_req)
- globus_result_t **globus_xio_handle_cntl** (handle, driver, **GLOBUS_XIO_GSI_REGISTER_ACCEPT_DELEGATION**, gss_OID_set restriction_oids, gss_buffer_set_t restriction_buffers, OM_uint32 time_req, **globus_xio_gsi_delegation_accept_callback_t** callback, void *callback_arg)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_FORCE_SERVER_MODE**, globus_bool_t server_mode)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_SET_ALLOW_MISSING_SIGNING_POLICY**, globus_bool_t allow)
- globus_result_t **globus_xio_attr_cntl** (attr, driver, **GLOBUS_XIO_GSI_GET_ALLOW_MISSING_SIGNING_POLICY**, globus_bool_t *allow)

2.6.1 Detailed Description

GSI driver specific attrs and cntls.

See Also

globus_xio_attr_cntl (p. 20) ()
globus_xio_handle_cntl (p. 18) ()

2.6.2 Enumeration Type Documentation

2.6.2.1 enum globus_xio_gsi_cmd_t

doxygen varargs filter stuff

GSI driver specific cntls

Enumerator

GLOBUS_XIO_GSI_SET_CREDENTIAL See usage for: **globus_xio_attr_cntl** (p. 10), **globus_xio_handle_cntl** (p. 10).

GLOBUS_XIO_GSI_GET_CREDENTIAL See usage for: **globus_xio_attr_cntl** (p. 11), **globus_xio_handle_cntl** (p. 12).

GLOBUS_XIO_GSI_SET_GSSAPI_REQ_FLAGS See usage for: **globus_xio_attr_cntl** (p. 12).

GLOBUS_XIO_GSI_GET_GSSAPI_REQ_FLAGS See usage for: **globus_xio_attr_cntl** (p. 12).

GLOBUS_XIO_GSI_SET_PROXY_MODE See usage for: **globus_xio_attr_cntl** (p. 12).

GLOBUS_XIO_GSI_GET_PROXY_MODE See usage for: **globus_xio_attr_cntl** (p. 12).

GLOBUS_XIO_GSI_SET_AUTHORIZATION_MODE See usage for: **globus_xio_attr_cntl** (p. 13).

GLOBUS_XIO_GSI_GET_AUTHORIZATION_MODE See usage for: **globus_xio_attr_cntl** (p. 13).

GLOBUS_XIO_GSI_SET_DELEGATION_MODE See usage for: **globus_xio_attr_cntl** (p. 13).

GLOBUS_XIO_GSI_GET_DELEGATION_MODE See usage for: **globus_xio_attr_cntl** (p. 13).

GLOBUS_XIO_GSI_SET_SSL_COMPATIBLE See usage for: **globus_xio_attr_cntl** (p. 13).

GLOBUS_XIO_GSI_SET_ANON See usage for: **globus_xio_attr_cntl** (p. 15).

GLOBUS_XIO_GSI_SET_WRAP_MODE See usage for: **globus_xio_attr_cntl** (p. 15).

GLOBUS_XIO_GSI_GET_WRAP_MODE See usage for: **globus_xio_attr_cntl** (p. 15).

GLOBUS_XIO_GSI_SET_BUFFER_SIZE See usage for: **globus_xio_attr_cntl** (p. 15).

GLOBUS_XIO_GSI_GET_BUFFER_SIZE See usage for: **globus_xio_attr_cntl** (p. 16).

GLOBUS_XIO_GSI_SET_PROTECTION_LEVEL See usage for: **globus_xio_attr_cntl** (p. 16).

GLOBUS_XIO_GSI_GET_PROTECTION_LEVEL See usage for: **globus_xio_attr_cntl** (p. 16).

GLOBUS_XIO_GSI_GET_TARGET_NAME See usage for: **globus_xio_attr_cntl** (p. 16).

GLOBUS_XIO_GSI_SET_TARGET_NAME See usage for: **globus_xio_attr_cntl** (p. 16).

GLOBUS_XIO_GSI_GET_CONTEXT See usage for: **globus_xio_handle_cntl** (p. 17).

GLOBUS_XIO_GSI_GET_DELEGATED_CRED See usage for: **globus_xio_handle_cntl** (p. 17).

GLOBUS_XIO_GSI_GET_PEER_NAME See usage for: **globus_xio_handle_cntl** (p. 17).

GLOBUS_XIO_GSI_GET_LOCAL_NAME See usage for: **globus_xio_handle_cntl** (p. 17).

GLOBUS_XIO_GSI_INIT_DELEGATION See usage for: **globus_xio_handle_cntl** (p. 17).

GLOBUS_XIO_GSI_REGISTER_INIT_DELEGATION See usage for: **globus_xio_handle_cntl** (p. 18).

GLOBUS_XIO_GSI_ACCEPT_DELEGATION See usage for: **globus_xio_handle_cntl** (p. 18).

GLOBUS_XIO_GSI_REGISTER_ACCEPT_DELEGATION See usage for: **globus_xio_handle_cntl** (p. 18).

GLOBUS_XIO_GSI_FORCE_SERVER_MODE See usage for: **globus_xio_attr_cntl** (p. 18).

GLOBUS_XIO_GSI_SET_ALLOW_MISSING_SIGNING_POLICY See usage for: **globus_xio_attr_cntl** (p. 20).

GLOBUS_XIO_GSI_GET_ALLOW_MISSING_SIGNING_POLICY See usage for: **globus_xio_attr_cntl** (p. 20).

2.6.3 Function Documentation

2.6.3.1 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_CREDENTIAL , gss_cred_id_t credential)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the credential to be used.

Parameters

<i>credential</i>	The credential to set. The credential structure needs to remain valid for the lifetime of any xio datastructure it is used by.
-------------------	--

Note

If this is called with the `handle_cntl`, there must be no outstanding operations on the handle.

2.6.3.2 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_SET_CREDENTIAL , gss_cred_id_t credential)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the credential to be used.

Parameters

<i>credential</i>	The credential to set. The credential structure needs to remain valid for the lifetime of any xio datastructure it is used by.
-------------------	--

Note

If this is called with the `handle_cntl`, there must be no outstanding operations on the handle.

2.6.3.3 `globus_result_t globus_xio_attr_cntl (attr, driver, GLOBUS_XIO_GSI_GET_CREDENTIAL, gss_cred_id_t *
credential)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the credential to be used.

Parameters

<i>credential</i>	The credential that is currently set. This will only return a credential if a credential was explicitly set prior to this call. It will not return any credential automatically acquired during context initialization.
-------------------	---

2.6.3.4 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_GET_CREDENTIAL , gss_cred_id_t * credential)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the credential to be used.

Parameters

<i>credential</i>	The credential that is currently set. This will only return a credential if a credential was explicitly set prior to this call. It will not return any credential automatically acquired during context initialization.
-------------------	---

2.6.3.5 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_GSSAPI_REQ_FLAGS , OM_uint32 req_flags)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the GSSAPI req_flags to be used.

Parameters

<i>req_flags</i>	The req_flags to set
------------------	----------------------

2.6.3.6 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_GSSAPI_REQ_FLAGS , OM_uint32 * req_flags)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the GSSAPI req_flags to be used.

Parameters

<i>req_flags</i>	The req flags currently in effect
------------------	-----------------------------------

2.6.3.7 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_PROXY_MODE , globus_xio_gsi_proxy_mode_t proxy_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the proxy mode.

Parameters

<i>proxy_mode</i>	The proxy mode to set
-------------------	-----------------------

Note

Changing the proxy mode changes the req_flags

2.6.3.8 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_PROXY_MODE , globus_xio_gsi_proxy_mode_t * proxy_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the proxy mode.

Parameters

<i>proxy_mode</i>	The proxy mode that is currently in effect
-------------------	--

Note

Changing the proxy mode changes the req_flags

2.6.3.9 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_AUTHORIZATION_MODE , globus_xio_gsi_authorization_mode_t authz_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the authorization mode.

Parameters

<i>authz_mode</i>	The authorization mode to set
-------------------	-------------------------------

2.6.3.10 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_AUTHORIZATION_MODE , globus_xio_gsi_authorization_mode_t * authz_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the authorization mode.

Parameters

<i>authz_mode</i>	The authorization mode that is currently in effect
-------------------	--

2.6.3.11 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_DELEGATION_MODE , globus_xio_gsi_delegation_mode_t delegation_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the delegation mode.

Parameters

<i>delegation_mode</i>	The delegation mode to use
------------------------	----------------------------

Note

Changing the delegation mode changes the req_flags

2.6.3.12 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_DELEGATION_MODE , globus_xio_gsi_delegation_mode_t * delegation_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the delegation mode.

Parameters

<i>delegation_mode</i>	The delegation mode currently in effect
------------------------	---

2.6.3.13 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_SSL_COMPATIBLE , globus_bool_t ssl_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Make the on the wire protocol SSL compatible.

This implies no wrapping of security tokens and no delegation

Parameters

<i>ssl_mode</i>	The ssl compatibility mode to use
-----------------	-----------------------------------

Note

Changing the ssl compatibility mode changes the req_flags

2.6.3.14 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_ANON , globus_bool_t anon_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Do anonymous authentication.

Parameters

<i>anon_mode</i>	The ssl compatibility mode to use
------------------	-----------------------------------

Note

Changing the ssl compatibility mode changes the req_flags and the wrapping mode

2.6.3.15 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_WRAP_MODE , globus_boolean_t wrap_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the wrapping mode

This mode determines whether tokens will be wrapped with a Globus IO style header or not.

Parameters

<i>wrap_mode</i>	The wrapping mode to use
------------------	--------------------------

2.6.3.16 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_WRAP_MODE , globus_boolean_t * wrap_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the wrapping mode

This mode determines whether tokens will be wrapped with a Globus IO style header or not.

Parameters

<i>wrap_mode</i>	The wrapping mode currently in use.
------------------	-------------------------------------

2.6.3.17 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_BUFFER_SIZE , globus_size_t buffer_size)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the read buffer size

The read buffer is used for buffering wrapped data, is initialized with a default size of 128K and scaled dynamically to always be able to fit whole tokens.

Parameters

<i>buffer_size</i>	The size of the read buffer
--------------------	-----------------------------

2.6.3.18 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_BUFFER_SIZE , globus_size_t * buffer_size)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the read buffer size

The read buffer is used for buffering wrapped data, is initialized with a default size of 128K and scaled dynamically to always be able to fit whole tokens.

Parameters

<i>buffer_size</i>	The size of the read buffer
--------------------	-----------------------------

2.6.3.19 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_PROTECTION_LEVEL , globus_xio_gsi_protection_level_t protection_level)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the protection level.

Parameters

<i>protection_level</i>	The protection level to set
-------------------------	-----------------------------

Note

Changing the proxy mode changes the req_flags

2.6.3.20 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_PROTECTION_LEVEL , globus_xio_gsi_protection_level_t * protection_level)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the protection level.

Parameters

<i>protection_level</i>	The current protection level
-------------------------	------------------------------

2.6.3.21 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_TARGET_NAME , gss_name_t * target_name)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the expected peer name.

Parameters

<i>target_name</i>	The expected peer name
--------------------	------------------------

2.6.3.22 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_TARGET_NAME , gss_name_t target_name)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the expected peer name.

Parameters

<i>target_name</i>	The expected peer name
--------------------	------------------------

2.6.3.23 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_GET_CONTEXT , gss_ctx_id_t * context)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the GSS context.

Parameters

<i>context</i>	The GSS context
----------------	-----------------

2.6.3.24 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_GET_DELEGATED_CRED , gss_cred_id_t * credential)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the delegated credential.

Parameters

<i>credential</i>	The delegated credential
-------------------	--------------------------

2.6.3.25 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_GET_PEER_NAME , gss_name_t * peer_name)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the name of the peer.

Parameters

<i>peer_name</i>	The GSS name of the peer.
------------------	---------------------------

2.6.3.26 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_GET_LOCAL_NAME , gss_name_t * local_name)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the GSS name associated with the local credentials.

Parameters

<i>local_name</i>	The GSS name of the local credentials
-------------------	---------------------------------------

2.6.3.27 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_INIT_DELEGATION , gss_cred_id_t credential, gss_OID_set restriction_oids, gss_buffer_set_t restriction_buffers, OM_uint32 time_req)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Initialize delegation-at-any-time process.

Parameters

<i>credential</i>	The GSS credential to delegate
<i>restriction_oids</i>	The OIDS for X.509 extensions to embed in the delegated credential

<i>restriction_ - buffers</i>	The corresponding bodies for the X.509 extensions
<i>time_req</i>	The lifetime of the delegated credential

2.6.3.28 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_REGISTER_INIT_DELEGATION , gss_cred_id_t credential, gss_OID_set restriction_oids, gss_buffer_set_t restriction_buffers, OM_uint32 time_req, globus_xio_gsi_delegation_init_callback_t callback, void * callback_arg)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Initialize non-blocking delegation-at-any-time process.

Parameters

<i>credential</i>	The GSS credential to delegate
<i>restriction_oids</i>	The OIDS for X.509 extensions to embed in the delegated credential
<i>restriction_ - buffers</i>	The corresponding bodies for the X.509 extensions
<i>time_req</i>	The lifetime of the delegated credential
<i>callback</i>	The callback to call when the operation completes
<i>callback_arg</i>	The arguments to pass to the callback

2.6.3.29 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_ACCEPT_DELEGATION , gss_cred_id_t * credential, gss_OID_set restriction_oids, gss_buffer_set_t restriction_buffers, OM_uint32 time_req)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Accept delegation-at-any-time process.

Parameters

<i>credential</i>	The delegated GSS credential
<i>restriction_oids</i>	The OIDS for X.509 extensions to embed in the delegated credential
<i>restriction_ - buffers</i>	The corresponding bodies for the X.509 extensions
<i>time_req</i>	The requested lifetime of the delegated credential

2.6.3.30 `globus_result_t globus_xio_handle_cntl (handle , driver , GLOBUS_XIO_GSI_REGISTER_ACCEPT_DELEGATION , gss_OID_set restriction_oids, gss_buffer_set_t restriction_buffers, OM_uint32 time_req, globus_xio_gsi_delegation_accept_callback_t callback, void * callback_arg)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Accept non-blocking delegation-at-any-time process.

Parameters

<i>restriction_oids</i>	The OIDS for X.509 extensions to embed in the delegated credential
<i>restriction_ - buffers</i>	The corresponding bodies for the X.509 extensions
<i>time_req</i>	The lifetime of the delegated credential
<i>callback</i>	The callback to call when the operation completes
<i>callback_arg</i>	The arguments to pass to the callback

2.6.3.31 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_FORCE_SERVER_MODE , globus_bool_t server_mode)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Force the server mode setting.

This explicitly sets the directionality of context establishment and delegation.

Parameters

<i>server_mode</i>	The server mode.
--------------------	------------------

2.6.3.32 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_SET_ALLOW_MISSING_SIGNING_POLICY , globus_bool_t allow)`

This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Set the allow missing signing policy flag.

Parameters

<i>allow</i>	The flag setting to use
--------------	-------------------------

Note

Changing this flag changes the `req_flags`

2.6.3.33 `globus_result_t globus_xio_attr_cntl (attr , driver , GLOBUS_XIO_GSI_GET_ALLOW_MISSING_SIGNING_POLICY , globus_bool_t * allow)`

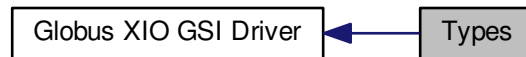
This is an overloaded member function, provided for convenience. It differs from the above function only in what argument(s) it accepts. Get the allow missing signing policy flag.

Parameters

<i>allow</i>	The flag currently set
--------------	------------------------

2.7 Types

Collaboration diagram for Types:



Typedefs

- typedef void(* **globus_xio_gsi_delegation_init_callback_t**)(globus_result_t result, void *user_arg)
- typedef void(* **globus_xio_gsi_delegation_accept_callback_t**)(globus_result_t result, gss_cred_id_t delegated_cred, OM_uint32 time_rec, void *user_arg)

Enumerations

- enum **globus_xio_gsi_protection_level_t** {
 GLOBUS_XIO_GSI_PROTECTION_LEVEL_NONE,
 GLOBUS_XIO_GSI_PROTECTION_LEVEL_INTEGRITY,
 GLOBUS_XIO_GSI_PROTECTION_LEVEL_PRIVACY }
- enum **globus_xio_gsi_delegation_mode_t** {
 GLOBUS_XIO_GSI_DELEGATION_MODE_NONE,
 GLOBUS_XIO_GSI_DELEGATION_MODE_LIMITED,
 GLOBUS_XIO_GSI_DELEGATION_MODE_FULL }
- enum **globus_xio_gsi_proxy_mode_t** {
 GLOBUS_XIO_GSI_PROXY_MODE_FULL,
 GLOBUS_XIO_GSI_PROXY_MODE_LIMITED,
 GLOBUS_XIO_GSI_PROXY_MODE_MANY }
- enum **globus_xio_gsi_authorization_mode_t** {
 GLOBUS_XIO_GSI_NO_AUTHORIZATION,
 GLOBUS_XIO_GSI_SELF_AUTHORIZATION,
 GLOBUS_XIO_GSI_IDENTITY_AUTHORIZATION,
 GLOBUS_XIO_GSI_HOST_AUTHORIZATION }

2.7.1 Detailed Description

2.7.2 Typedef Documentation

2.7.2.1 typedef void(* globus_xio_gsi_delegation_init_callback_t)(globus_result_t result, void *user_arg)

Globus XIO GSI init delegation callback.

2.7.2.2 typedef void(* globus_xio_gsi_delegation_accept_callback_t)(globus_result_t result, gss_cred_id_t delegated_cred, OM_uint32 time_rec, void *user_arg)

Globus XIO GSI init delegation callback.

2.7.3 Enumeration Type Documentation

2.7.3.1 enum globus_xio_gsi_protection_level_t

Globus XIO GSI protection levels.

Enumerator

GLOBUS_XIO_GSI_PROTECTION_LEVEL_NONE No security.

GLOBUS_XIO_GSI_PROTECTION_LEVEL_INTEGRITY Messages are signed.

GLOBUS_XIO_GSI_PROTECTION_LEVEL_PRIVACY Messages are signed and encrypted.

2.7.3.2 enum globus_xio_gsi_delegation_mode_t

Globus XIO GSI delegation modes.

Enumerator

GLOBUS_XIO_GSI_DELEGATION_MODE_NONE No delegation.

GLOBUS_XIO_GSI_DELEGATION_MODE_LIMITED Delegate a limited proxy.

GLOBUS_XIO_GSI_DELEGATION_MODE_FULL Delegate a full proxy.

2.7.3.3 enum globus_xio_gsi_proxy_mode_t

Globus XIO GSI proxy modes.

Enumerator

GLOBUS_XIO_GSI_PROXY_MODE_FULL Accept only full proxies.

GLOBUS_XIO_GSI_PROXY_MODE_LIMITED Accept full proxies and limited proxies if they are the only limited proxy in the cert chain.

GLOBUS_XIO_GSI_PROXY_MODE_MANY Accept both full and limited proxies unconditionally.

2.7.3.4 enum globus_xio_gsi_authorization_mode_t

Globus XIO GSI authorization modes.

Enumerator

GLOBUS_XIO_GSI_NO_AUTHORIZATION Do not perform any authorization. This will cause a error when used in conjunction with delegation on the init/client side.

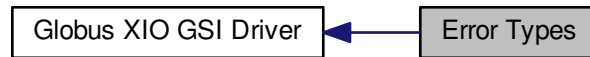
GLOBUS_XIO_GSI_SELF_AUTHORIZATION Authorize the peer if the peer has the same identity as ourselves.

GLOBUS_XIO_GSI_IDENTITY_AUTHORIZATION Authorize the peer if the peer identity matches the identity set in the target name.

GLOBUS_XIO_GSI_HOST_AUTHORIZATION Authorize the peer if the identity of the peer matches the identity of the peer hostname.

2.8 Error Types

Collaboration diagram for Error Types:



Enumerations

- enum **globus_xio_gsi_error_t** {
 GLOBUS_XIO_GSI_ERROR_INVALID_PROTECTION_LEVEL,
 GLOBUS_XIO_GSI_ERROR_WRAP_GSSAPI,
 GLOBUS_XIO_GSI_ERROR_EMPTY_TARGET_NAME,
 GLOBUS_XIO_GSI_ERROR_EMPTY_HOST_NAME,
 GLOBUS_XIO_GSI_AUTHORIZATION_FAILED,
 GLOBUS_XIO_GSI_ERROR_TOKEN_TOO_BIG }

2.8.1 Detailed Description

The GSI driver uses mostly GSSAPI calls, so it generally just wraps the underlying GSSAPI errors or uses generic xio errors.

See Also

globus_xio_driver_error_match ()
globus_error_gssapi_match ()
globus_error_match_openssl_error ()

2.8.2 Enumeration Type Documentation

2.8.2.1 enum globus_xio_gsi_error_t

GSI driver specific error types.

Enumerator

GLOBUS_XIO_GSI_ERROR_INVALID_PROTECTION_LEVEL Indicates that the established context does not meet the required protection level.

GLOBUS_XIO_GSI_ERROR_WRAP_GSSAPI Wraps a GSSAPI error.

GLOBUS_XIO_GSI_ERROR_EMPTY_TARGET_NAME Indicates that GLOBUS_XIO_GSI_IDENTITY_AUTHORIZATION is set but that the target name is empty.

GLOBUS_XIO_GSI_ERROR_EMPTY_HOST_NAME Indicates that GLOBUS_XIO_GSI_HOST_AUTHORIZATION is set but that no host name is available.

GLOBUS_XIO_GSI_AUTHORIZATION_FAILED Indicates that the peer is not authorized.

GLOBUS_XIO_GSI_ERROR_TOKEN_TOO_BIG Indicates the the token being read is too big. Usually happens when someone tries to establish a non secure session with a endpoint that expects security

Index

Attributes and Cntls, 7

- GLOBUS_XIO_GSI_ACCEPT_DELEGATION, 10
- GLOBUS_XIO_GSI_FORCE_SERVER_MODE, 10
- GLOBUS_XIO_GSI_GET_ALLOW_MISSING_SIGNING_POLICY, 10
- GLOBUS_XIO_GSI_GET_AUTHORIZATION_MODE, 9
- GLOBUS_XIO_GSI_GET_BUFFER_SIZE, 10
- GLOBUS_XIO_GSI_GET_CONTEXT, 10
- GLOBUS_XIO_GSI_GET_CREDENTIAL, 9
- GLOBUS_XIO_GSI_GET_DELEGATED_CRED, 10
- GLOBUS_XIO_GSI_GET_DELEGATION_MODE, 9
- GLOBUS_XIO_GSI_GET_GSSAPI_REQ_FLAGS, 9
- GLOBUS_XIO_GSI_GET_LOCAL_NAME, 10
- GLOBUS_XIO_GSI_GET_PEER_NAME, 10
- GLOBUS_XIO_GSI_GET_PROTECTION_LEVEL, 10
- GLOBUS_XIO_GSI_GET_PROXY_MODE, 9
- GLOBUS_XIO_GSI_GET_TARGET_NAME, 10
- GLOBUS_XIO_GSI_GET_WRAP_MODE, 9
- GLOBUS_XIO_GSI_INIT_DELEGATION, 10
- GLOBUS_XIO_GSI_REGISTER_ACCEPT_DELEGATION, 10
- GLOBUS_XIO_GSI_REGISTER_INIT_DELEGATION, 10
- GLOBUS_XIO_GSI_SET_ALLOW_MISSING_SIGNING_POLICY, 10
- GLOBUS_XIO_GSI_SET_ANON, 9
- GLOBUS_XIO_GSI_SET_AUTHORIZATION_MODE, 9
- GLOBUS_XIO_GSI_SET_BUFFER_SIZE, 9
- GLOBUS_XIO_GSI_SET_CREDENTIAL, 9
- GLOBUS_XIO_GSI_SET_DELEGATION_MODE, 9
- GLOBUS_XIO_GSI_SET_GSSAPI_REQ_FLAGS, 9
- GLOBUS_XIO_GSI_SET_PROTECTION_LEVEL, 10
- GLOBUS_XIO_GSI_SET_PROXY_MODE, 9
- GLOBUS_XIO_GSI_SET_SSL_COMPATIBLE, 9
- GLOBUS_XIO_GSI_SET_TARGET_NAME, 10
- GLOBUS_XIO_GSI_SET_WRAP_MODE, 9
- globus_xio_attr_cntl, 10, 12, 13, 15, 16, 18, 20
- globus_xio_gsi_cmd_t, 9
- globus_xio_handle_cntl, 10, 12, 17, 18

Env Variables, 6

Error Types, 23

- GLOBUS_XIO_GSI_AUTHORIZATION_FAILED, 23
- GLOBUS_XIO_GSI_ERROR_EMPTY_HOST_NAME, 23
- GLOBUS_XIO_GSI_ERROR_EMPTY_TARGET_NAME, 23
- GLOBUS_XIO_GSI_ERROR_INVALID_PROTECTION_LEVEL, 23
- GLOBUS_XIO_GSI_ERROR_TOKEN_TOO_BIG, 23
- GLOBUS_XIO_GSI_ERROR_WRAP_GSSAPI, 23
- globus_xio_gsi_error_t, 23
- GLOBUS_XIO_GSI_ACCEPT_DELEGATION
 - Attributes and Cntls, 10
- GLOBUS_XIO_GSI_AUTHORIZATION_FAILED
 - Error Types, 23
- GLOBUS_XIO_GSI_DELEGATION_MODE_FULL
 - Types, 22
- GLOBUS_XIO_GSI_DELEGATION_MODE_LIMITED
 - Types, 22
- GLOBUS_XIO_GSI_DELEGATION_MODE_NONE
 - Types, 22
- GLOBUS_XIO_GSI_ERROR_EMPTY_HOST_NAME
 - Error Types, 23
- GLOBUS_XIO_GSI_ERROR_EMPTY_TARGET_NAME
 - Error Types, 23
- GLOBUS_XIO_GSI_ERROR_INVALID_PROTECTION_LEVEL
 - Error Types, 23
- GLOBUS_XIO_GSI_ERROR_TOKEN_TOO_BIG
 - Error Types, 23
- GLOBUS_XIO_GSI_ERROR_WRAP_GSSAPI
 - Error Types, 23
- GLOBUS_XIO_GSI_FORCE_SERVER_MODE
 - Attributes and Cntls, 10
- GLOBUS_XIO_GSI_GET_ALLOW_MISSING_SIGNING_POLICY
 - Attributes and Cntls, 10
- GLOBUS_XIO_GSI_GET_AUTHORIZATION_MODE
 - Attributes and Cntls, 9
- GLOBUS_XIO_GSI_GET_BUFFER_SIZE
 - Attributes and Cntls, 10
- GLOBUS_XIO_GSI_GET_CONTEXT
 - Attributes and Cntls, 10
- GLOBUS_XIO_GSI_GET_CREDENTIAL
 - Attributes and Cntls, 9
- GLOBUS_XIO_GSI_GET_DELEGATED_CRED
 - Attributes and Cntls, 10
- GLOBUS_XIO_GSI_GET_DELEGATION_MODE
 - Attributes and Cntls, 9
- GLOBUS_XIO_GSI_GET_GSSAPI_REQ_FLAGS

Attributes and Cntls, 9	GLOBAL_XIO_GSI_SET_PROTECTION_LEVEL
GLOBAL_XIO_GSI_GET_LOCAL_NAME	Attributes and Cntls, 10
Attributes and Cntls, 10	GLOBAL_XIO_GSI_SET_PROXY_MODE
GLOBAL_XIO_GSI_GET_PEER_NAME	Attributes and Cntls, 9
Attributes and Cntls, 10	GLOBAL_XIO_GSI_SET_SSL_COMPATIBLE
GLOBAL_XIO_GSI_GET_PROTECTION_LEVEL	Attributes and Cntls, 9
Attributes and Cntls, 10	GLOBAL_XIO_GSI_SET_TARGET_NAME
GLOBAL_XIO_GSI_GET_PROXY_MODE	Attributes and Cntls, 10
Attributes and Cntls, 9	GLOBAL_XIO_GSI_SET_WRAP_MODE
GLOBAL_XIO_GSI_GET_TARGET_NAME	Attributes and Cntls, 9
Attributes and Cntls, 10	Globus XIO GSI Driver, 2
GLOBAL_XIO_GSI_GET_WRAP_MODE	globus_xio_attr_cntl
Attributes and Cntls, 9	Attributes and Cntls, 10, 12, 13, 15, 16, 18, 20
GLOBAL_XIO_GSI_HOST_AUTHORIZATION	globus_xio_gsi_authorization_mode_t
Types, 22	Types, 22
GLOBAL_XIO_GSI_IDENTITY_AUTHORIZATION	globus_xio_gsi_cmd_t
Types, 22	Attributes and Cntls, 9
GLOBAL_XIO_GSI_INIT_DELEGATION	globus_xio_gsi_delegation_accept_callback_t
Attributes and Cntls, 10	Types, 21
GLOBAL_XIO_GSI_NO_AUTHORIZATION	globus_xio_gsi_delegation_init_callback_t
Types, 22	Types, 21
GLOBAL_XIO_GSI_PROTECTION_LEVEL_INTEGRITY	globus_xio_gsi_delegation_mode_t
Types, 22	Types, 22
GLOBAL_XIO_GSI_PROTECTION_LEVEL_NONE	globus_xio_gsi_error_t
Types, 22	Error Types, 23
GLOBAL_XIO_GSI_PROTECTION_LEVEL_PRIVACY	globus_xio_gsi_protection_level_t
Types, 22	Types, 22
GLOBAL_XIO_GSI_PROXY_MODE_FULL	globus_xio_gsi_proxy_mode_t
Types, 22	Types, 22
GLOBAL_XIO_GSI_PROXY_MODE_LIMITED	globus_xio_handle_cntl
Types, 22	Attributes and Cntls, 10, 12, 17, 18
GLOBAL_XIO_GSI_PROXY_MODE_MANY	Opening/Closing, 3
Types, 22	Reading/Writing, 4
GLOBAL_XIO_GSI_REGISTER_ACCEPT_DELEGATION	Server, 5
Attributes and Cntls, 10	Types, 21
GLOBAL_XIO_GSI_REGISTER_INIT_DELEGATION	GLOBAL_XIO_GSI_DELEGATION_MODE_FULL, 22
Attributes and Cntls, 10	GLOBAL_XIO_GSI_DELEGATION_MODE_LIMITED, 22
GLOBAL_XIO_GSI_SELF_AUTHORIZATION	GLOBAL_XIO_GSI_DELEGATION_MODE_NONE, 22
Types, 22	GLOBAL_XIO_GSI_HOST_AUTHORIZATION, 22
GLOBAL_XIO_GSI_SET_ALLOW_MISSING_SIGNING_POLICY	GLOBAL_XIO_GSI_IDENTITY_AUTHORIZATION, 22
Attributes and Cntls, 10	GLOBAL_XIO_GSI_NO_AUTHORIZATION, 22
GLOBAL_XIO_GSI_SET_ANON	GLOBAL_XIO_GSI_PROTECTION_LEVEL_INTEGRITY, 22
Attributes and Cntls, 9	GLOBAL_XIO_GSI_PROTECTION_LEVEL_NONE, 22
GLOBAL_XIO_GSI_SET_AUTHORIZATION_MODE	GLOBAL_XIO_GSI_PROTECTION_LEVEL_PRIVACY, 22
Attributes and Cntls, 9	GLOBAL_XIO_GSI_PROXY_MODE_FULL, 22
GLOBAL_XIO_GSI_SET_BUFFER_SIZE	
Attributes and Cntls, 9	
GLOBAL_XIO_GSI_SET_CREDENTIAL	
Attributes and Cntls, 9	
GLOBAL_XIO_GSI_SET_DELEGATION_MODE	
Attributes and Cntls, 9	
GLOBAL_XIO_GSI_SET_GSSAPI_REQ_FLAGS	
Attributes and Cntls, 9	

GLOBUS_XIO_GSI_PROXY_MODE_LIMITED,
22
GLOBUS_XIO_GSI_PROXY_MODE_MANY, 22
GLOBUS_XIO_GSI_SELF_AUTHORIZATION, 22
globus_xio_gsi_authorization_mode_t, 22
globus_xio_gsi_delegation_accept_callback_t, 21
globus_xio_gsi_delegation_init_callback_t, 21
globus_xio_gsi_delegation_mode_t, 22
globus_xio_gsi_protection_level_t, 22
globus_xio_gsi_proxy_mode_t, 22