Inter-Client Exchange Library

X Consortium Standard

Ralph Mor, X Consortium

Inter-Client Exchange Library: X Consortium Standard

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Chapter 6. Protocol Registration

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IceRegisterForProtocolSetup **protocol_name* **vendor* **release* **version_count* **version_count* **version_recs* *auth_names* ***auth_names* **auth_procs* **io_error_proc*

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`$ **IceRegisterForProtocolReply** *host_name*`

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`$ HostBasedAuthProc *host_name`

```
ProtocolSetupProc ice_conn major_version minor_version
*vendor *release *client_data_ret **failure_reason_ret
```

[illegible]

```
( & ProtocolActivateProc ice_conn client_data
```

[illegible]

Callbacks for Processing Messages

[illegible]

```
( & PoProcessMsgProc ice_conn client_data opcode length swap
*reply_wait *reply_ready_ret
```

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(& **IcePaProcessMsgProc** *ice_conn* *client_data* *opcode* *length* *swap*

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Authentication Methods

[illegible]

[illegible]

[illegible]

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" **IcePoAuthStatus** *ice_conn* *client_data* *opcode*

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```
"        PoAuthStatus   ice_conn   *auth_state_ptr   swap
auth_datalen   auth_data   *reply_datalen_ret   *reply_data_ret
**error_string_ret
```

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Chapter 7. ICE Connections

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Opening an ICE Connection

[illegible]

IceOpenConnection **network_ids_list* *context* *must_authenticate* *major_opcode_check* *error_length* **error_string_ret*

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Listening for ICE Connections

[illegible]

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IceListenForConnections *count_ret **listen_objs_ret
error_length *error_string_ret

[illegible]

[illegible]

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[illegible]

IceListenForWellKnownConnections *port_id *count_ret
**listen_objs_ret error_length *error_string_ret

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[illegible]

(& **IceFreeListenObjs** _count_ _*listen_objs_

[illegible]

[illegible]

[illegible]

[illegible]

IceGetListenConnectionNumber _*listen_objs_

[illegible]

[illegible]

IceGetListenConnectionString _listen_obj_

[illegible]

[illegible]

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[illegible]

IceComposeNetworkIdList *count* **listen_objs*

[illegible]

[illegible]

Host Based Authentication for ICE Connections

[illegible]

(& **IceSetHostBasedAuthProc** *listen_obj* *host_based_auth_proc*

[illegible]

[illegible]

[illegible]

$ **HostBasedAuthProc** **host_name*

[illegible]

[illegible]

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Accepting ICE Connections

[illegible]

IceAcceptConnection *listen_obj* **status_ret*

[illegible]

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Closing ICE Connections

IceCloseConnection *ice_conn*

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(& **IceSetShutdownNegotiation** *ice_conn* *negotiate*

[illegible]

[illegible]

[illegible]

$ **IceCheckShutdownNegotiation** *ice_conn*

[illegible]

[illegible]

Connection Watch Procedures

[illegible]

IceAddConnectionWatch *watch_proc* *client_data*

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`( & `**`WatchProc`** *`ice_conn`* *`client_data`* *`opening`* *`*watch_data`*

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`( & `**`IceRemoveConnectionWatch`** *`watch_proc`* *`client_data`*

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Chapter 8. Protocol Setup and Shutdown

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```
IceProtocolSetup ice_conn my_opcode
client_data must_authenticate *major_version_ret
*minor_version_ret **vendor_ret **release_ret error_length
*error_string_ret
```

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```
IceProtocolShutdown ice_conn major_opcode
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Chapter 9. Processing Messages

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! **IceProcessMessages** *ice_conn* **reply_wait* **reply_ready_ret*

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Chapter 10. Ping

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IcePing *ice_conn* *ping_reply_proc* *client_data*

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(& **PingReplyProc** *ice_conn* *client_data*

[illegible]

[illegible]

Chapter 11. Using ICElib Informational Functions

IceConnectionStatus *ice_conn*

[illegible]

- [illegible]
- [illegible]
- [illegible]
- [illegible]

***IceVendor** *ice_conn*

[illegible]

***IceRelease** *ice_conn*

[illegible]

IceProtocolVersion *ice_conn*

[illegible]

IceProtocolRevision *ice_conn*

[illegible]

IceConnectionNumber *ice_conn*

[illegible]

***IceConnectionString** *ice_conn*

[illegible]

IceLastSentSequenceNumber *ice_conn*

[illegible]

IceLastReceivedSequenceNumber *ice_conn*

[illegible]

$ **IceSwapping** *ice_conn*

[illegible]

IceGetContext *ice_conn*

[illegible]

Chapter 12. ICE Messages

[illegible]

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" ,B 0 +  4    &
" ,B 0    4    &
" ,B &   CDE
" ,FD        $FD
```

[illegible]

Sending ICE Messages

[illegible]

[illegible]

[illegible]

IceGetOutBufSize *ice_conn*

[illegible]

[illegible]

IceFlush *ice_conn*

[illegible]

[illegible]

[illegible]

IceGetHeader *ice_conn* *major_opcode* *minor_opcode* *header_size* **pmsg*

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

[illegible]

IceGetHeaderExtra *ice_conn* *major_opcode* *minor_opcode* *header_size* *extra* **pmsg* **pdata*

[illegible]

IceSimpleMessage *ice_conn* *major_opcode* *minor_opcode*

[illegible]

IceErrorHeader *ice_conn* *offending_major_opcode* *offending_minor_opcode* *offending_sequence_num* *severity* *error_class* *data_length*

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IceWriteData *ice_conn* *bytes* **data*

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IceWriteData16 *ice_conn* *bytes* **data*

4□.□□□"□5□0□$□□□□$□□□□□□□+□$□□

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IceWriteData32 *ice_conn* *bytes* **data*

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-□□□"□□□□□□□%□□□□□

[illegible] FD

[illegible]

IceSendData *ice_conn* *bytes* _*data_

[illegible]

[illegible]

[illegible]

[illegible]

IceWritePad *ice_conn* *bytes* _*data_

[illegible]

[illegible]

[illegible]

Reading ICE Messages

[illegible]

[illegible] G

IceGetInBufSize *ice_conn*

[illegible]

[illegible]

$ **IceValidIO** *ice_conn*

[illegible]

[illegible]

IceReadSimpleMessage *ice_conn* _*pmsg_

[illegible]

() * [illegible]

[illegible]

[illegible]

[illegible]

IceReadCompleteMessage *ice_conn* *header_size* *pmsg *pdata

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

IceDisposeCompleteMessage *ice_conn* *pdata

[illegible]

[illegible]

[illegible]

IceReadMessageHeader *ice_conn* *header_size* *pmsg

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

IceReadData *ice_conn* *bytes* **pdata*

[illegible]

[illegible]

[illegible]

[illegible] HI

IceReadData16 *ice_conn* *swap* *bytes* **pdata*

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] FD

IceReadData32 *ice_conn* *swap* *bytes* **pdata*

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

IceReadPad *ice_conn* *bytes*

[illegible]

[illegible]

Chapter 13. Error Handling

[illegible]

- [illegible]

- [illegible]

[illegible]

[illegible]

IceSetErrorHandler *ice_conn* *bytes*

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

(& **IceErrorHandler** *ice_conn* *swap* *offending_minor_opcode* *offending_sequence_num* *error_class* *severity* *values*

[illegible]

[illegible]

[illegible]

\+ [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
$ &!
$ &
$ &-
```

```
$ &@
$ &! +
1 "
1 @
          &
"     +     &
"         &
        ,
! +  #   & ,
: 2  /
```

2# # "!   ""

-"#5*1 #   % &

% & **IceSetIOErrorHandler** *handler*

-5*1"9"87;;"#"

% & .51"

45*1"#   % &

(& **IceIOErrorHandler** *ice_conn*

-50$$+$

-%%#"5150,

I 5#51""%.$"51""$ -50$$.'"51'"#"%$$"->!$"%#!#4$"$

I 5$"51""$"+0 $$B$Q.+0 +0$%B#"$$B."B-#$""

=#$5*1".B"$%"#"#5*1%.#"".B"-"$#$&"$"$"""$$#$$

(& **IceIOErrorProc** *ice_conn*

-50$$+$

8.#$$B-F"$$$.$#"#B$$"$51".B"#%"

Chapter 14. Multi-Threading Support

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] **IceLockConn** *ice_conn*

[illegible] **IceUnlockConn** *ice_conn*

[illegible]

[illegible]

[illegible] **IceAppLockConn** *ice_conn*

[illegible]

[illegible]

[illegible] **IceAppUnlockConn** *ice_conn*

[illegible]

[illegible]

Chapter 15. Miscellaneous Functions

[illegible]

***IceAllocScratch** *ice_conn* *size*

[illegible]

[illegible]

[illegible]

Chapter 16. Acknowledgements

[illegible]

Appendix A. Authentication Utility Functions

[illegible]

[illegible]

[illegible]

- [illegible]
- [illegible]
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```
IceLockAuthFile *file_name retries timeout dead
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

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```
IceUnlockAuthFile *file_name
```

[illegible]

[illegible]

```
*IceReadAuthFileEntry *auth_file
```

[illegible]

[illegible]

0 " # % $ "

- % ? # * "

IceWriteAuthFileEntry **auth_file* **entry*

- ? #

- %

8 # $ # # % # $ # $ - # $? # %
$$ #

- $ " # ? # # $. $ J * % BJ "* J 3 "

" ***IceGetAuthFileEntry** **protocol_name* **network_id*
**auth_name*

- # $ $

- % B 56 $

- $ " $

5# 3 " # # " $ 87;; "

- # " & " 3 "
"

(& **IceFreeAuthFileEntry** **entry*

- #

Appendix B. MIT-MAGIC-COOKIE-1 Authentication

[illegible]

[illegible]

[illegible]

***IceGenerateMagicCookie** *length*

[illegible]

[illegible]

[illegible]

IceSetPaAuthData *num_entries* **entries*

[illegible]

[illegible]

[illegible]

[illegible]