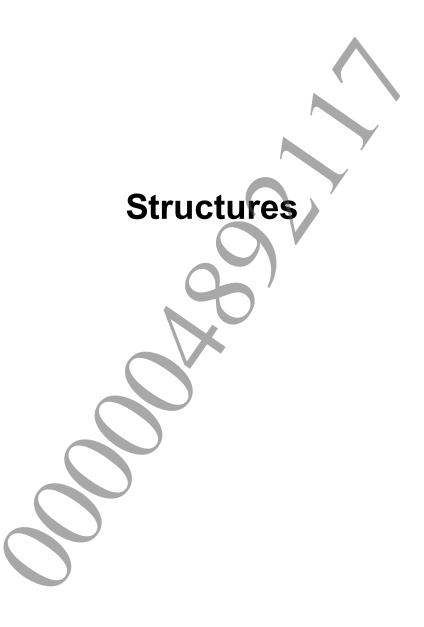
Ad Hoc Matching Library Reference

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SceNetAdhocMatchingMember

Member list structure

Definition

Members

addr IP address

Description

This structure represents a member list.

See Also

sceNetAdhocMatchingGetMembers()





sceNetAdhocMatchingInit

Initialize Ad hoc Matching library

Definition

Calling Conditions

Not multithread safe

Arguments

```
poolsize Memory pool size for the library (bytes)
poolptr Memory pool for the library
```

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	()	Description
SCE_NET_ADHOC_MATCHING	0x80413112	Already initialized.
_ERROR_ALREADY_INITIAL		sceNetAdhocMatchingInit() may have already
IZED		been called. Check the calling order.

Description

This function initializes the Ad hoc Matching library.

This function uses the memory specified in poolsize and poolptr as internal memory. This area is used by the library for all internal memory use.

See Also

sceNetAdhocMatchingTerm()

sceNetAdhocMatchingTerm

Terminate Ad hoc Matching library

Definition

```
#include <adhoc matching.h>
int sceNetAdhocMatchingTerm(
        void
);
```

Calling Conditions

Not multithread safe

Arguments

None

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413111	The library is in execution.
_ERROR_BUSY		The library cannot be terminated during execution.
		Interrupt library processing by executing
		sceNetAdhocMatchingStop() or
	\ X	sceNetAdhocMatchingDelete().

Description

This function terminates the Ad hoc Matching library.

Delete all contexts before calling this function.

See Also

sceNetAdhocMatchingInit(), sceNetAdhocMatchingStop(), sceNetAdhocMatchingDelete()





sceNetAdhocMatchingCreate

Create matching context

Definition

```
#include <adhoc_matching.h>
int sceNetAdhocMatchingCreate(
    int mode,
    int maxnum,
    SceUShort16 port,
    int rxbuflen,
    unsigned int helloInterval,
    unsigned int keepaliveInterval,
    int initCount,
    unsigned int rexmtInterval,
    SceNetAdhocMatchingHandler handler
);
```

Calling Conditions

Multithread safe.

Arguments

mode Operating mode maxnum Maximum number of matching group members port Port number rxbuflen Receive buffer size helloInterval Hello message interval (microseconds) keepaliveInterval KeepAliveRequest message interval (microseconds) initCount Initial value of Resend counter and KeepAlive counter Message resend interval (microseconds) rexmtInterval handler Event handler function

Return Values

Context ID of 0 or greater is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413103	Invalid maxnum value.
_ERROR_INVALID_MAXNUM		Check the maxnum value. A value smaller than 2 or
		greater than
		SCE_NET_ADHOC_MATCHING_MAXNUM(16) is
		specified.
SCE_NET_ADHOC_MATCHING	0x80413104	The value of rxbuflen is too small.
_ERROR_RXBUF_TOO_SHORT		Check the rxbuflen value. The minimum value will
		depend on maxnum. Specify approximately 2 KB.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413106	Invalid argument was specified.
_ERROR_INVALID_ARG		Check the helloInterval, keepaliveInterval,
		initCount, or rexmtInterval value.
		If initCount is less than 0, this is considered to be an
		invalid value. If helloInterval,
		keepaliveInterval, and rexmtInterval are set
		to be used, 0 is considered to be an invalid value.
SCE_NET_ADHOC_MATCHING	0x80413109	Memory allocation Failed.
_ERROR_NO_SPACE		Check whether the value of the memory pool specified
		with sceNetAdhocMatchingInit() is sufficient.
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
		initialize the Ad hoc Matching library.
SCE_NET_ADHOC_MATCHING	0x80413114	The port is already in use.
_ERROR_PORT_IN_USE		A context has already been created with the same port
		number.

This function creates a matching context.

When the function completes normally, it returns the context ID.

Notes

maxnum is valid only when mode is SCE_NET_ADHOC_MATCHING_MODE_PARENT.

helloInterval and keepaliveInterval are valid only when mode is
SCE_NET_ADHOC_MATCHING_MODE_P2P or SCE_NET_ADHOC_MATCHING_MODE_PARENT.

See Also

sceNetAdhocMatchingDelete()
SceNetAdhocMatchingHandler

sceNetAdhocMatchingStart

Start matching

Definition

Calling Conditions

Multithread safe.

Arguments

idContext IDthreadPriorityPriority of internal threadthreadStackSizeCPU affinity of internal threadthreadCpuAffinityMaskStack size of internal thread (bytes)helloOptlenSize of Hello message optional datahelloOptHello message optional data

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified <i>id</i> value.
SCE_NET_ADHOC_MATCHING	0x80413105	The size of the specified Hello message option data is
_ERROR_INVALID_OPTLEN		invalid.
		Check the specified helloOptlen value.
		The maximum value is
		SCE_NET_ADHOC_MATCHING_MAXHELLOOPTLEN.
		In particular, if helloopt is NULL and a value
		greater than 0 is specified in helloOptlen this error
		will occur.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413109	Memory allocation Failed
_ERROR_NO_SPACE		Check whether the value of the memory pool
		specified with sceNetAdhocMatchingInit() is
		sufficient.
SCE_NET_ADHOC_MATCHING	0x8041310a	The specified context is running.
_ERROR_IS_RUNNING		Stop the context by calling
		sceNetAdhocMatchingStop()
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
		initialize the Ad hoc Matching library.

This function starts matching for the specified context ID.

If 0 is specified in threadPriority, threadStackSize and threadCpuAffinityMask, default values will be used internally. Default values will be the following macros, respectively.

- SCE NET ADHOC MATCHING THREAD PRIORITY DEFAULT
- SCE NET ADHOC MATCHING THREAD STACK SIZE DEFAULT
- SCE NET ADHOC MATCHING THREAD CPU AFFINITY MASK

Notes

helloOptlen and helloOpt are valid only when mode is SCE_NET_ADHOC_MATCHING_MODE_P2P or SCE_NET_ADHOC_MATCHING_MODE_PARENT.

This function will return SCE_NET_CTL_ERROR_NOT_CONNECTED if no connection has been established to the ad hoc network. Be sure to call this function only after a connection is established.

See Also

sceNetAdhocMatchingStop(



Document serial number: 000004892117

sceNetAdhocMatchingStop

Stop matching

Definition

Calling Conditions

Multithread safe.

Arguments

id Context ID

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified id value.
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
	\ X	initialize the Ad hoc Matching library.

Description

This function stops matching for the specified context ID.

It reports the cancellation of a join request to the target player who issued the request. It also reports the cancellation of a participation agreement to the target player with whom an agreement had been established.

See Also

sceNetAdhocMatchingStart()

sceNetAdhocMatchingDelete

Delete matching context

Definition

Calling Conditions

Multithread safe.

Arguments

id Context ID

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified id value.
SCE_NET_ADHOC_MATCHING	0x8041310a	The specified context is running.
_ERROR_IS_RUNNING		Stop the context by calling
		sceNetAdhocMatchingStop()
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
		initialize the Ad hoc Matching library.

Description

This function deletes the matching context having the specified context ID. Call this function after matching has stopped.

See Also

sceNetAdhocMatchingCreate()

sceNetAdhocMatchingSelectTarget

Select/accept target participating player

Definition

Calling Conditions

Multithread safe.

Arguments

id Context ID

target Address of target participating player

optlen Size of optional data opt Optional data

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413105	Check the specified optlen value.
_ERROR_INVALID_OPTLEN		The maximum value is
		SCE NET ADHOC MATCHING MAXOPTLEN.
		In particular, if opt is NULL and a value greater than 0
		is specified in Optlen this error will occur.
SCE_NET_ADHOC_MATCHING	0x80413106	Invalid argument was specified
_ERROR_INVALID_ARG		NULL was specified for target
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified id value.
SCE_NET_ADHOC_MATCHING	0x80413109	Memory allocation Failed
_ERROR_NO_SPACE		Check whether the value of the memory pool specified
		with sceNetAdhocMatchingInit() is sufficient.
SCE_NET_ADHOC_MATCHING	0x8041310b	Matching has not been started.
_ERROR_NOT_RUNNING		The specified matching context is not running. Start it
		with sceNetAdhocMatchingStart().
SCE_NET_ADHOC_MATCHING	0x8041310c	Target participating player does not exist.
_ERROR_UNKNOWN_TARGET		Check the specified target value.
SCE_NET_ADHOC_MATCHING	0x8041310d	The target participating player has not performed
_ERROR_TARGET_NOT_READ y		reception.
Y		This occurs when the specified target participating
		player is in
		SCE_NET_ADHOC_MATCHING_MODE_PARENT mode.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x8041310e	Target participating player maximum value exceeded.
_ERROR_EXCEED_MAXNUM		Target participating players have been chosen in excess
		of the maxnum value specified with
		sceNetAdhocMatchingCreate().
SCE_NET_ADHOC_MATCHING	0x8041310f	Matching processing with the target participating
_ERROR_REQUEST_IN_PROG		player is in progress.
RESS		A target participating player for whom selection
		processing is in progress has been specified. Wait for
		processing to end.
SCE_NET_ADHOC_MATCHING	0x80413110	Matching processing with the target participating
_ERROR_ALREADY_ESTABLI		player has already been completed.
SHED		Since matching processing with the specified target
		participating player has already been completed, there
		is no need for processing.
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and initialize
		the Ad hoc Matching library.

This function selects/accepts target as a participating player.

The result is reported via a handler function.

See Also

sceNetAdhocMatchingCancelTarget(), sceNetAdhocMatchingCancelTargetWithOpt()

sceNetAdhocMatchingCancelTarget

Cancel/deny selection of participating target player

Definition

Calling Conditions

Multithread safe.

Arguments

id Context IDtarget Address of target player

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413106	Invalid argument was specified
_ERROR_INVALID_ARG		NULL was specified for target
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified id value.
SCE_NET_ADHOC_MATCHING	0x8041310b	Matching has not been started.
_ERROR_NOT_RUNNING		The specified matching context is not running. Start it
		with sceNetAdhocMatchingStart().
SCE_NET_ADHOC_MATCHING	0x8041310c	Target participating player does not exist.
_ERROR_UNKNOWN_TARGET		Check the specified target value.
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
	J	initialize the Ad hoc Matching library.

Description

This function cancels/denies the selection of the participating player indicated by target.

See Also

 ${\tt sceNetAdhocMatchingSelectTarget(), sceNetAdhocMatchingCancelTargetWithOpt()}$

sceNetAdhocMatchingCancelTargetWithOpt

Cancel/deny selection of target player (with optional data)

Definition

Calling Conditions

Multithread safe.

Arguments

id Context ID

target Address of target player optlen Size of optional data Optional data

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

11	\	/
Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413105	Check the specified optlen value.
_ERROR_INVALID_OPTLEN		The maximum value is
		SCE_NET_ADHOC_MATCHING_MAXOPTLEN.
		In particular, if opt is NULL and a value greater than
		0 is specified in optlen this error will occur.
SCE_NET_ADHOC_MATCHING	0x80413106	Invalid argument was specified
_ERROR_INVALID_ARG		NULL was specified for target
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified id value.
SCE_NET_ADHOC_MATCHING	0x80413109	Memory allocation Failed
_ERROR_NO_SPACE		Check whether the value of the memory pool
		specified with sceNetAdhocMatchingInit() is
		sufficient.
SCE_NET_ADHOC_MATCHING	0x8041310b	Matching has not been started.
_ERROR_NOT_RUNNING		The specified matching context is not running. Start it
		<pre>with sceNetAdhocMatchingStart().</pre>
SCE_NET_ADHOC_MATCHING	0x8041310c	Target participating player does not exist.
_ERROR_UNKNOWN_TARGET		Check the specified target value.
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
		initialize the Ad hoc Matching library.

This function cancels/denies the selection of the participating player indicated by target.

See Also

 ${\tt sceNetAdhocMatchingSelectTarget(), sceNetAdhocMatchingCancelTarget()}$





sceNetAdhocMatchingSendData

Send data

Definition

Calling Conditions

Multithread safe.

Arguments

id Context ID

target Address of target player

datalen Data size data Data

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

	\	
Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413106	Invalid argument was specified
_ERROR_INVALID_ARG		NULL was specified for target or data
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified <i>id</i> value.
SCE_NET_ADHOC_MATCHING	0x80413109	Memory allocation Failed
_ERROR_NO_SPACE		Check whether the value of the memory pool specified
		with sceNetAdhocMatchingInit() is sufficient.
SCE_NET_ADHOC_MATCHING	0x8041310b	Matching has not been started.
_ERROR_NOT_RUNNING		The specified matching context is not running. Start it
		with sceNetAdhocMatchingStart().
SCE_NET_ADHOC_MATCHING	0x8041310c	Target participating player does not exist.
_ERROR_UNKNOWN_TARGET		Check the specified target value.
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
		initialize the Ad hoc Matching library.
SCE_NET_ADHOC_MATCHING	0x80413116	Invalid data size was specified.
_ERROR_INVALID_DATALEN		Check the specified datalen value.
		The maximum value is
		SCE_NET_ADHOC_MATCHING_MAXDATALEN.
SCE_NET_ADHOC_MATCHING	0x80413117	Matching with the target participating player has not
_ERROR_NOT_ESTABLISHED		been completed.
		Execute after completing matching with the specified
		target.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413118	Data transmission with the target participating player
_ERROR_DATA_BUSY		is already in progress.
		Data cannot be sent consecutively until the
		acknowledgement for sent data
		(SCE NET ADHOC MATCHING EVENT DATA ACK) is
		received.

This function sends data to target.

target must be in ESTABLISHED state.

The result of the send is reported via the handler function.

New data cannot be sent until the send result is reported or sceNetAdhocMatchingAbortSendData() is called.

The data resend interval and resend count are specified by sceNetAdhocMatchingCreate().

Notes

Child peers cannot change to ESTABLISHED state. Therefore, this function cannot be used for communication between CHILD peers.

See Also

sceNetAdhocMatchingAbortSendData()

sceNetAdhocMatchingAbortSendData

Cancel data send

Definition

Calling Conditions

Multithread safe.

Arguments

id Context IDtarget Address of target player

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified id value.
SCE_NET_ADHOC_MATCHING	0x8041310b	Matching has not been started.
_ERROR_NOT_RUNNING		The specified matching context is not running. Start it
		with sceNetAdhocMatchingStart().
SCE_NET_ADHOC_MATCHING	0x8041310c	Target participating player does not exist.
_ERROR_UNKNOWN_TARGET		Check the specified target value.
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
		initialize the Ad hoc Matching library.

Description

This function interrupts the sending of data to target. It should be called when you want to send new data without waiting for the result of the previous send to be reported after sceNetAdhocMatchingSendData() is called.

See Also

sceNetAdhocMatchingSendData()



sceNetAdhocMatchingSetHelloOpt

Set/update Hello message optional data

Definition

Calling Conditions

Multithread safe.

Arguments

id Context IDoptlen Size of optional dataopt Optional data

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

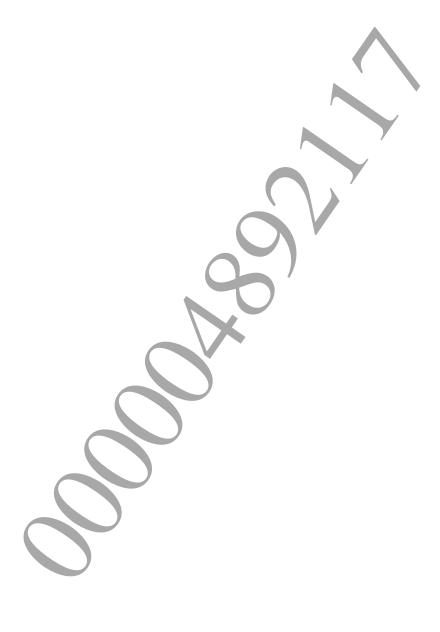
Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413101	Invalid data mode.
_ERROR_INVALID_MODE		Cannot be executed for
		SCE_NET_ADHOC_MATCHING_MODE_CHILD. Check
		the mode specified with
		sceNetAdhocMatchingCreate().
SCE_NET_ADHOC_MATCHING	0x80413105	Invalid data size was specified.
_ERROR_INVALID_OPTLEN		Check the specified optlen value.
		The maximum value is
		SCE_NET_ADHOC_MATCHING_MAXHELLOOPTLEN.
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified id value.
SCE_NET_ADHOC_MATCHING	0x80413109	Memory allocation Failed
_ERROR_NO_SPACE		Check whether the value of the memory pool specified
		with sceNetAdhocMatchingInit() is sufficient.
SCE_NET_ADHOC_MATCHING	0x8041310b	Matching has not been started.
_ERROR_NOT_RUNNING		The specified matching context is not running. Start it
		with sceNetAdhocMatchingStart().
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
		initialize the Ad hoc Matching library.

This function sets/updates the optional data for Hello messages.

To remove optional data from the message, call this function and specify 0 for optlen and NULL for opt. The setting will be in effect until matching ends.

See Also

sceNetAdhocMatchingGetHelloOpt()



sceNetAdhocMatchingGetHelloOpt

Get Hello message optional data

Definition

Calling Conditions

Multithread safe.

Arguments

id Context ID

buflen Size of memory area indicated by buf

buf Pointer to memory area for storing optional data

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413101	Invalid data mode.
_ERROR_INVALID_MODE		Cannot be executed for
		SCE_NET_ADHOC_MATCHING_MODE_CHILD. Check
		the mode specified with
		<pre>sceNetAdhocMatchingCreate().</pre>
SCE_NET_ADHOC_MATCHING	0x80413106	Invalid argument was specified
_ERROR_INVALID_ARG		NULL was specified for buflen
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified <i>id</i> value.
SCE_NET_ADHOC_MATCHING	0x8041310b	Matching has not been started.
_ERROR_NOT_RUNNING		The specified matching context is not running. Start
		it with sceNetAdhocMatchingStart().
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
		initialize the Ad hoc Matching library.

Description

This function gets the optional data for the specified Hello message.

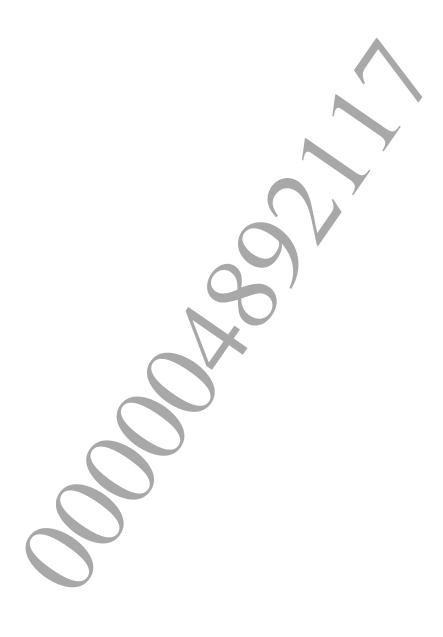
This function copies the data set in the area pointed to by buf and returns the length to buflen.

When buflen is less than the length of the optional data, only the first buflen size of optional data are copied.

When buf is NULL, only the length of the optional data is returned to buflen.

See Also

sceNetAdhocMatchingSetHelloOpt()



sceNetAdhocMatchingGetMembers

Get members

Definition

Calling Conditions

Multithread safe.

Arguments

id Context ID

memberNum Number of members who have agreed to participate

members Who have agreed to participate

Return Values

0 is returned for normal completion.

Returns a negative value for errors. The main error codes are shown below. Note, however, that the application must not malfunction even if other error codes are returned.

		\ \ \ \
Value	(Number)	Description
SCE_NET_ADHOC_MATCHING	0x80413106	Invalid argument was specified
_ERROR_INVALID_ARG		NULL was specified for memberNum
SCE_NET_ADHOC_MATCHING	0x80413107	Invalid context ID was specified.
_ERROR_INVALID_ID		Check the specified id value.
SCE_NET_ADHOC_MATCHING	0x8041310b	Matching has not been started.
_ERROR_NOT_RUNNING		The specified matching context is not running. Start
		it with sceNetAdhocMatchingStart().
SCE_NET_ADHOC_MATCHING	0x80413113	Not initialized.
_ERROR_NOT_INITIALIZED		Execute sceNetAdhocMatchingInit() and
)	initialize the Ad hoc Matching library.

Description

This function gets a list of members who currently have a participation agreement.

If NULL is specified in members, the number of members will return in memberNum.

If members is not NULL, the data of members who have agreed to participate is copied in members, with the number specified in memberNum as the maximum value.

Notes

The local terminal is included in the member list.

Therefore, if there are no members who have agreed to participate, only the local terminal will be returned as a member.

See Also

SceNetAdhocMatchingMember



SceNetAdhocMatchingHandler

Event handler prototype

Definition

Arguments

id Context ID event Event

peer Address of event targetoptlen Size of optional dataopt Optional data

Description

This event handler is called from the event handler thread to report an event from the Ad hoc Matching library.

Types of events and their meanings are listed below.

Event	Description
SCE_NET_ADHOC_MATCHING_EVENT_HELLO	A Hello message was received
	The optional data opt is valid when
	optlen >0
SCE_NET_ADHOC_MATCHING_EVENT_REQUEST	A join request was received
	The optional data opt is valid when
	optlen >0
SCE_NET_ADHOC_MATCHING_EVENT_LEAVE	The participation agreement was canceled
	by the target player
SCE_NET_ADHOC_MATCHING_EVENT_DENY	The join request was denied
SCE_NET_ADHOC_MATCHING_EVENT_CANCEL	The join request was canceled
SCE_NET_ADHOC_MATCHING_EVENT_ACCEPT	The join request was accepted
	The optional data opt is valid when
	optlen >0
SCE_NET_ADHOC_MATCHING_EVENT_ESTABLISHED	A participation agreement was established
SCE_NET_ADHOC_MATCHING_EVENT_TIMEOUT	The participation agreement was canceled
	because of a Keep Alive timeout
SCE_NET_ADHOC_MATCHING_EVENT_ERROR	A protocol error occurred

The following table shows the types of events that can occur as a function of the mode.

Event	P2P	PARENT	CHILD
SCE_NET_ADHOC_MATCHING_EVENT_HELLO	yes	no	yes
SCE_NET_ADHOC_MATCHING_EVENT_REQUEST	yes	yes	no
SCE_NET_ADHOC_MATCHING_EVENT_LEAVE	yes	yes	yes
SCE_NET_ADHOC_MATCHING_EVENT_DENY	yes	no	yes
SCE_NET_ADHOC_MATCHING_EVENT_CANCEL	yes	yes	no
SCE_NET_ADHOC_MATCHING_EVENT_ACCEPT	yes	no	yes
SCE_NET_ADHOC_MATCHING_EVENT_ESTABLISHED	yes	yes	yes *1
SCE_NET_ADHOC_MATCHING_EVENT_TIMEOUT	yes	yes	yes
SCE_NET_ADHOC_MATCHING_EVENT_ERROR	yes	yes	yes

yes: Can occur

no: Cannot occur

*1 This cannot occur among CHILD peers.

Notes

With threads that call the Ad hoc Matching library API and threads in event handler functions, you should be careful to avoid waiting for the same resource (such as using <code>sceKernelWaitSema()</code> to wait for the same semaphore). This is because threads calling the Ad hoc Matching library API and event-handler threads can get deadlocked.

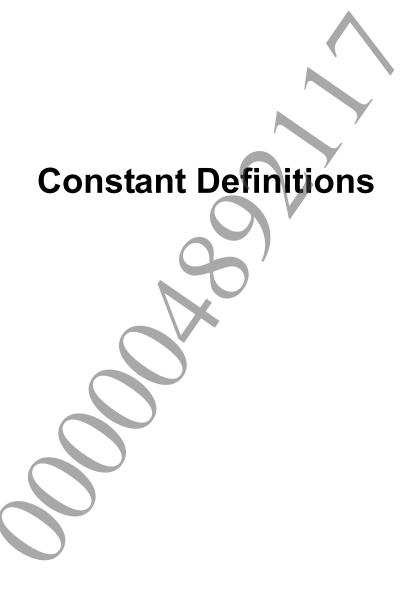
The optional data indicated by opt is valid until the handler function returns.

To continue to use optional data after the handler returns, be sure to copy it to a local memory area.

See Also

sceNetAdhocMatchingCreate()





SCE_NET_ADHOC_MATCHING_MODE_XXX

Matching operating mode

Definition

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING_MODE_PARENT	1	Multiplayer mode (parent)
SCE_NET_ADHOC_MATCHING_MODE_CHILD	2	Multiplayer mode (child)
SCE_NET_ADHOC_MATCHING_MODE_P2P	3	Multiplayer mode (Peer-to-Peer)

Description

These constants represent matching operating modes.

See Also

sceNetAdhocMatchingCreate()



SCE_NET_ADHOC_MATCHING_EVENT_XXX

Matching event

Definition

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING_EVENT_HELLO	1	A Hello message was received
SCE_NET_ADHOC_MATCHING_EVENT_REQUEST	2	A join request was received
SCE_NET_ADHOC_MATCHING_EVENT_LEAVE	3	The participation agreement
		was canceled
		by the target player
SCE_NET_ADHOC_MATCHING_EVENT_DENY	4	The join request was denied
SCE_NET_ADHOC_MATCHING_EVENT_CANCEL	5	The join request was canceled
SCE_NET_ADHOC_MATCHING_EVENT_ACCEPT	6	The join request was accepted
SCE_NET_ADHOC_MATCHING_EVENT_ESTABLISHED	7	A participation agreement was
		established
SCE_NET_ADHOC_MATCHING_EVENT_TIMEOUT	8	The participation agreement
		was canceled
		, because of a Keep Alive timeout
SCE_NET_ADHOC_MATCHING_EVENT_ERROR	9	A protocol error
SCE_NET_ADHOC_MATCHING_EVENT_BYE	10	Target participating player has
		stopped matching
SCE_NET_ADHOC_MATCHING_EVENT_DATA	11	Data received from target
	·	participating player
SCE_NET_ADHOC_MATCHING_EVENT_DATA_ACK	12	Acknowledgement of sent data
		received
SCE_NET_ADHOC_MATCHING_EVENT_DATA_TIMEOUT	13	Could not receive
		acknowledgement of sent data
\ X		by the specified retry interval
		and retry count

Description

These constants represent matching events.

See Also

SceNetAdhocMatchingHandler()

Document serial number: 000004892117

SCE_NET_ADHOC_MATCHING_MAXXXX

Maximum data lengths

Definition

Value	(Number)	Description
SCE_NET_ADHOC_MATCHING_	9196	Maximum length of the optlen argument of
MAXOPTLEN		sceNetAdhocMatchingSelectTarget() and
		<pre>sceNetAdhocMatchingCancelTargetWithOpt()</pre>
SCE_NET_ADHOC_MATCHING_	9204	Maximum length of the datalen argument of
MAXDATALEN		sceNetAdhocMatchingSendData()
SCE_NET_ADHOC_MATCHING_	1426	Maximum length of the helloOptlen argument of
MAXHELLOOPTLEN		sceNetAdhocMatchingStart() and the optlen
		argument of
		sceNetAdhocMatchingSetHelloOpt()

Description

These constants represent maximum lengths for the length of data to send specified in each API.

See Also

sceNetAdhocMatchingSelectTarget(), sceNetAdhocMatchingCancelTargetWithOpt(), sceNetAdhocMatchingSendData(), sceNetAdhocMatchingStart(), sceNetAdhocMatchingSetHelloOpt()

