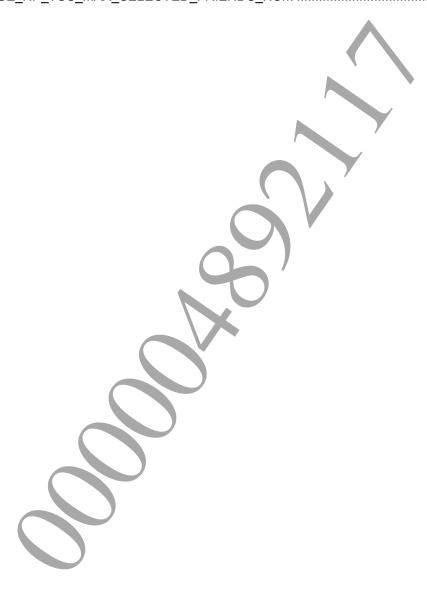


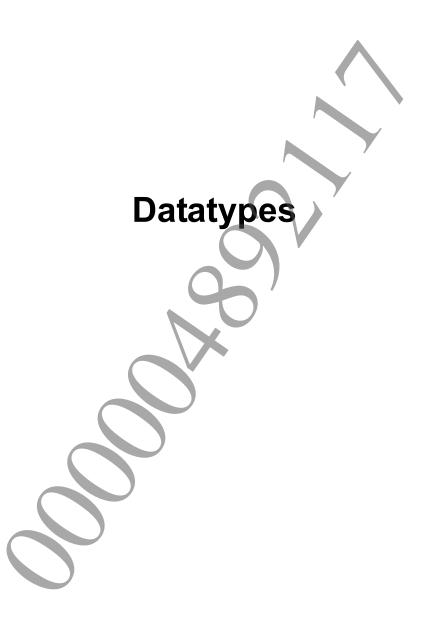
© 2015 Sony Computer Entertainment Inc. All Rights Reserved. SCE Confidential

Table of Contents

| Datatypes | 4 |
|---|------|
| SceNpTusSlotId | 5 |
| SceNpTusVirtualUserId | 6 |
| SceNpTusVariable | 7 |
| SceNpTusDataInfo | 8 |
| SceNpTusDataStatus | 9 |
| SceNpTusGetFriendsVariableOptParam | .10 |
| SceNpTusGetFriendsDataStatusOptParam | . 11 |
| Initialization and Termination Functions | 12 |
| sceNpTusInit | .13 |
| sceNpTusTerm | .14 |
| Context Operation Functions | |
| sceNpTusCreateTitleCtx | |
| sceNpTusDeleteTitleCtx | |
| sceNpTusCreateRequest | .19 |
| sceNpTusDeleteRequest | .20 |
| sceNpTusSetTimeout | .21 |
| sceNpTusChangeModeForOtherSaveDataOwners | |
| sceNpTusAbortRequest | |
| sceNpTusWaitAsync, sceNpTusPollAsync | |
| TUS Variable Operation Functions | |
| sceNpTusSetMultiSlotVariable, sceNpTusSetMultiSlotVariableVUser | |
| sceNpTusSetMultiSlotVariableAsync, sceNpTusSetMultiSlotVariableVUserAsync | |
| sceNpTusGetMultiSlotVariable, sceNpTusGetMultiSlotVariableVUser | |
| sceNpTusGetMultiSlotVariableAsync, sceNpTusGetMultiSlotVariableVUserAsync | |
| sceNpTusGetMultiUserVariable, sceNpTusGetMultiUserVariableVUser | |
| sceNpTusGetMultiUserVariableAsync, sceNpTusGetMultiUserVariableVUserAsync | |
| sceNpTusGetFriendsVariable | .44 |
| sceNpTusGetFriendsVariableAsync | .47 |
| sceNpTusAddAndGetVariable, sceNpTusAddAndGetVariableVUser | .49 |
| sceNpTusAddAndGetVariableAsync, sceNpTusAddAndGetVariableVUserAsync | |
| sceNpTusTryAndSetVariable, sceNpTusTryAndSetVariableVUser | .55 |
| sceNpTusTryAndSetVariableAsync, sceNpTusTryAndSetVariableVUserAsync | .59 |
| sceNpTusDeleteMultiSlotVariable, sceNpTusDeleteMultiSlotVariableVUser | .62 |
| sceNpTusDeleteMultiSlotVariableAsync, sceNpTusDeleteMultiSlotVariableVUserAsync | .64 |
| TUS Data Operation Functions | 66 |
| sceNpTusSetData, sceNpTusSetDataVUser | .67 |
| sceNpTusSetDataAsync, sceNpTusSetDataVUserAsync | .70 |
| sceNpTusGetData, sceNpTusGetDataVUser | |
| sceNpTusGetDataAsync, sceNpTusGetDataVUserAsync | .76 |
| sceNpTusGetMultiSlotDataStatus, sceNpTusGetMultiSlotDataStatusVUser | .78 |
| sceNpTusGetMultiSlotDataStatusAsync, sceNpTusGetMultiSlotDataStatusVUserAsync | .81 |
| sceNpTusGetMultiUserDataStatus, sceNpTusGetMultiUserDataStatusVUser | .83 |
| sceNpTusGetMultiUserDataStatusAsync, sceNpTusGetMultiUserDataStatusVUserAsync | .86 |

| sceNpTusGetFriendsDataStatus | 88 |
|---|-----|
| sceNpTusGetFriendsDataStatusAsync | 91 |
| sceNpTusDeleteMultiSlotData, sceNpTusDeleteMultiSlotDataVUser | 93 |
| sceNpTusDeleteMultiSlotDataAsync, sceNpTusDeleteMultiSlotDataVUserAsync | 95 |
| Constants | 97 |
| SCE_NP_TUS_DATA_INFO_MAX_SIZE | 98 |
| SCE_NP_TUS_MAX_CTX_NUM | 99 |
| SCE_NP_TUS_MAX_SLOT_NUM_PER_REQUEST | 100 |
| SCE_NP_TUS_MAX_USER_NUM_PER_REQUEST | 101 |
| SCE NP TUS MAX SELECTED FRIENDS NUM | 102 |





SceNpTusSlotId

Type definition for a TUS slot ID

Definition

#include <np.h>
typedef SceInt32 SceNpTusSlotId;

Description

This datatype is for specifying the ID of a TUS slot (TUS variable or TUS data). Slots are prepared per NP Communication ID on the title user storage server according to settings that are made in advance.



SceNpTusVirtualUserId

Type definition for a virtual user ID

Definition

```
#include <np.h>
#define SCE NP ONLINEID MIN LENGTH
#define SCE NP ONLINEID MAX LENGTH
typedef struct SceNpTusVirtualUserId {
        char data[SCE NP ONLINEID MAX LENGTH];
        char term;
        char dummy[3];
} SceNpTusVirtualUserId;
```

Description

This datatype is for specifying the ID of a virtual user. It is the same datatype as the Online ID. However, the virtual user ID is not pursuant to the specifications of the Online ID (starts from the underscore), and the virtual user ID cannot be specified in functions where the Online ID should be specified.

The virtual user is prepared per NP Communication ID, on the title user storage server, according to settings made in advance.

SceNpTusVariable

Structure for representing a TUS variable

Definition

```
#include <np.h>
typedef struct SceNpTusVariable{
        SceNpId ownerId;
        SceInt32 hasData;
        SceUInt8 pad[4];
        SceRtcTick lastChangedDate;
        SceNpId lastChangedAuthorId;
        SceInt64 variable;
        SceInt64 oldVariable;
        SceUInt8 reserved[16];
} SceNpTusVariable;
```

Members

ownerId Owner

hasData Flag indicating whether a value has been set.

1 if set, 0 if not

pad **Padding**

lastChangedDateLast update date

lastChangedAuthorIdLast updated by variable Currently set value oldVariable Previously set value

reserved Area for future extension

Description

This structure represents the status and value of a TUS variable.

- oldVariable can only be obtained with the following APIs.
- sceNpTusAddAndGetVariableAsync(), sceNpTusAddAndGetVariableVUserAsync()
- sceNpTusTryAndSetVariable(), sceNpTusTryAndSetVariableVUser()

• sceNpTusAddAndGetVariable(), sceNpTusAddAndGetVariableVUser()

sceNpTusTryAndSetVariableAsync(),sceNpTusTryAndSetVariableVUserAsync()



SceNpTusDataInfo

Structure for representing the accessory information of a TUS data

Definition

Members

infoSize Size of valid data within data

pad Padding

data Area for storing the accessory information of a TUS data

Description

This structure stores the accessory information of a TUS data.

It is assumed that accessory information will be used as index data. Functions are provided whereby accessory information of multiple TUS data, for a single user, can be obtained. Functions are also provided whereby the accessory information of 1 TUS data for multiple users can be obtained all at once.

Notes

The maximum size of accessory information is SCE_NP_TUS_DATA_INFO_MAX_SIZE. However, because it is directly connected to the storage size used by the server, avoid filling its unused space with 0s or with empty spaces, and only specify the required size in <code>infoSize</code>.

See Also

SceNpTusDataStatus, SCE_NP_TUS_DATA_INFO_MAX_SIZE

SceNpTusDataStatus

Structure for representing the status of TUS data

Definition

Members

ownerId Owner

hasData Flag indicating whether data has been set.

1 if set, 0 if not

lastChangedDateLast update timelastChangedAuthorIdLast updated by

data Pointer to area where the data is stored

dataSize Total size of TUS data

pad Padding

info Area storing the accessory information

Description

This structure is for representing the status and data of a TUS data.

data will be NULL when obtaining the status of TUS data. Actual data will be set to this member when a function, such as sceNpTusGetData(), is used to obtain the data itself. When obtaining data in installments using multiple function calls, the pointer set in the first call will be returned in the subsequent calls.



SceNpTusGetFriendsVariableOptParam

Extended parameters for obtaining friends' TUS variables

Definition

```
#include <np.h>
typedef struct SceNpTusGetFriendsVariableOptParam {
        SceSize size;
        SceUInt32 *startSerialRank;
        SceUInt32 *hits;
} SceNpTusGetFriendsVariableOptParam;
```

Members

size Size of this structure (IN) startSerialRank Pointer to start position (ranking among friends) to obtain (IN). If NULL is specified, obtaining will be performed from the first ranked friend Total number of friends with TUS variables registered in the target slot (OUT) hits

Description

This is an option structure for handling the 100th and later ranked TUS variables among friends with sceNpTusGetFriendsVariable() and sceNpTusGetFriendsVariableAsync().

For size, specify sizeof (SceNpTusGetFriendsVariableOptParam).

Notes

Web APIs are provided for the purpose of preparing test environments where more than 100 friends have TUS variables registered. For details, refer to the "TUS Management Overview" document.



SceNpTusGetFriendsDataStatusOptParam

Extended parameters for obtaining friends' TUS data statuses

Definition

```
#include <np.h>
typedef struct SceNpTusGetFriendsDataStatusOptParam {
        SceSize size;
        SceUInt32 *startSerialRank;
        SceUInt32 *hits;
} SceNpTusGetFriendsDataStatusOptParam;
```

Members

size Size of this structure (IN) startSerialRank Pointer to start position (ranking among friends) to obtain (IN). If NULL is specified, obtaining will be performed from the first ranked friend Total number of friends with TUS data registered in the target slot (OUT) hits

Description

This is an option structure for handling the 100th and later ranked TUS data statuses among friends with sceNpTusGetFriendsDataStatus() and sceNpTusGetFriendsDataStatusAsync(). For size, specify sizeof (SceNpTusGetFriendsDataStatusOptParam).

Notes

Web APIs are provided for the purpose of preparing test environments where more than 100 friends have TUS data statuses registered. For details, refer to the "TUS Management Overview" document.





sceNpTusInit

Initialize the NP TUS library

Definition

Arguments

threadPriority
cpuAffinityMask
option

Priority of the thread created for communication between processes CPU affinity mask of the thread used for communication between processes Option reserved for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--|------------|------------------------------|
| SCE_NP_COMMUNITY_ERROR_ALREADY_INITIALIZED | 0x80550701 | Already initialized. |
| | | sceNpTusInit() may have |
| | | already been executed. Check |
| | | the calling order |

Description

This function initializes the NP TUS library. A thread on a system process will be started for handling communication with the server. A thread on the game process will be started for handling communication between processes, with the specified priority and affinity mask. Memory required for process communication will be allocated internally. This function must be called before using the NP TUS library.

Because communication is performed on a system process, processing on the game process is limited to communication between processes. The speed of the response will also affect the processing speed on the system process side. Thus, set SCE_KERNEL_THREAD_CPU_AFFINITY_MASK_DEFAULT for the affinity mask and ensure that whenever a core becomes free, a processing can be assigned to it.

Notes

This function is not multithread safe.

See Also

sceNpTusTerm()

sceNpTusTerm

Terminate the NP TUS library

Definition

#include <np.h>
int sceNpTusTerm(void);

Arguments

None

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--|------------|----------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |

Description

This function terminates the NP TUS library.

Notes

This function is not multithread safe.

See Also

sceNpTusInit()





sceNpTusCreateTitleCtx

Create a title context

Definition

Arguments

communicationId Pointer to an NP Communication ID.

If NULL was specified, the value of SceNpCommunicationConfig set with

sceNpInit() is used

passphrase Pointer to a structure storing authentication information of the title user storage

allocated to the NP Communication ID.

If NULL was specified, the value of SceNpCommunicationConfig set with

sceNpInit() is used

selfNpId Pointer to a structure storing the NP ID of the logging-in user.

If NULL was specified, the NP ID obtained with sceNpManagerGetNpId() is

used

Return Values

Returns the title context ID (>0) for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|-------------------------|------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | • |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550703 | Not enough free memory |
| OUT_OF_MEMORY | | |
| SCE_NP_COMMUNITY_ERROR | 0x80550706 | Creating more than 32 title contexts at one time was |
| TOO_MANY_OBJECTS | | attempted |
| |) | Check to see that sceNpTusDeleteTitleCtx() was |
| | ſ | called as necessary |

Description

This function creates a title context. A title context is used to create a request ID, which is then used to perform communication processing of the NP TUS library.

For passphrase, specify a pointer to the authentication information (NP communication passphrase) allocated to the specified NP Communication ID.

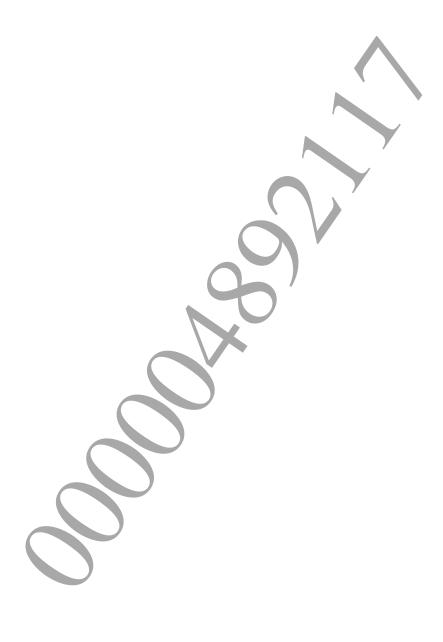
Notes

Up to 32 title contexts can be created at one time, however, try to minimize the number of title contexts by reusing one whenever possible.

All title contexts will automatically be deleted when <code>sceNpTusTerm()</code> is called. As a general rule, however, program your application so that title contexts are explicitly destroyed using <code>sceNpTusDeleteTitleCtx()</code> before <code>sceNpTusTerm()</code> is called.

See Also

sceNpTusDeleteTitleCtx(),SCE_NP_TUS_MAX_CTX_NUM



Document serial number: 000004892117

sceNpTusDeleteTitleCtx

Delete a title context

Definition

Arguments

titleCtxId ID of title context to delete

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--|------------|-----------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | Specified ID does not exist |

Description

This function deletes a title context.

All title contexts will automatically be deleted when <code>sceNpTusTerm()</code> is called. As a general rule, however, program your application so that title contexts are explicitly destroyed using this function before <code>sceNpTusTerm()</code> is called.

See Also

sceNpTusCreateTitleCtx()



sceNpTusCreateRequest

Create a request ID

Definition

Arguments

titleCtxId Title context ID

Return Values

Returns a request ID (>0) for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|-------------------------|------------|---|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550703 | Not enough free memory |
| OUT_OF_MEMORY | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550706 | Creating more than 32 request IDs at one time was |
| TOO_MANY_OBJECTS | | attempted |
| | | Make sure that you have not forgotten to call |
| | | sceNpTusDeleteRequest() |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | Specified ID does not exist |
| INVALID_ID | \ X | |

Description

This function creates a request ID to be used for the NP TUS library.

A request ID is used up per communication processing function. It must be created before calling a communication processing function; and it must be deleted by sceNpTusDeleteRequest() after it has been used.

Up to 32 request IDs can exist at one time.

Notes

All request IDs will automatically be deleted when <code>sceNpTusTerm()</code> is called. As a general rule, however, program your application so that request IDs are explicitly destroyed using <code>sceNpTusDeleteRequest()</code> before <code>sceNpTusTerm()</code> is called.

See Also

sceNpTusDeleteRequest(), SCE NP TUS MAX CTX NUM

Document serial number: 000004892117

sceNpTusDeleteRequest

Delete a request ID

Definition

Arguments

reqId Request ID to delete

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--|------------|-----------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_OUT_OF_MEMORY | 0x80550703 | Not enough free memory |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | Specified ID does not exist |

Description

This function deletes a used request ID.

Up to 32 request IDs can exist at one time.

All request IDs will automatically be deleted when <code>sceNpTusTerm()</code> is called. As a general rule, however, program your application so that request IDs are explicitly destroyed using this function before <code>sceNpTusTerm()</code> is called.

See Also

sceNpTusCreateRequest(



sceNpTusSetTimeout

Set forced timeout time

Definition

Arguments

ctxIdTitle context ID, or request IDresolveRetryName resolution retry countresolveTimeoutName resolution timeout time (in microseconds)connTimeoutTimeout time when connecting (in microseconds)sendTimeoutSending timeout time (in microseconds)recvTimeoutReceiving timeout time (in microseconds)

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---|------------|--|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ARGUMENT | 0x80550704 | Value specified for the number of retries or timeout time is too small |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | Specified ID does not exist |

Description

This function sets the timeout time for communication processing.

To ctxId, specify the ID of the targeted title context ID or request ID, and set name resolution retry count and communication processing timeout times in microseconds.

When the title context is the target, this timeout value will be used as the default value of the requests created from the title context. However, it will not affect the timeout of requests that have already been created.

Notes

Instead of calling this function to set the timeout time, use the default timeout time wherever possible. If you are considering the use of this function to prevent user operation from becoming impossible for a long period of time, consider adopting a user cancellation scheme using sceNpTusAbortRequest() first.

The default timeout values are as follows.

Name resolution retry count
Name resolution timeout time
Timeout time when connecting
Sending timeout time
Receiving timeout time
5 times
1 second
30 seconds
60 seconds
60 seconds

The timeout value cannot be set in total time. This is because the waiting time of connection processing is included in the API calling time, in accordance with the newly introduced concept of intermittent connection. If processing were to be aborted when timeout occurs based on total time count, timeout would occur during time-consuming operations by the user, such as SSID and password input. Therefore, if setting timeout using a unique method, it is recommended not to count on a total time basis, but rather to set socket layer timeout, as in this function.

2 seconds can be assumed to be the normal time required for communication processing. However, depending on the user's network environment, it is possible for a large delay to occur; therefore we recommend setting the timeout value to 30 seconds or more. Note that this value of 30 seconds is not appropriate for general network programming. For example, in a situation where the clients communicate directly with each other, consider differences in client environments (differences in load times depending on hardware differences, for example), and keep in mind that it is necessary to set a longer timeout.

See Also

sceNpTusCreateTitleCtx(), sceNpTusCreateRequest(), sceNpTusAbortRequest()

sceNpTusChangeModeForOtherSaveDataOwners

Set operation restriction applied when another owner's save data is loaded

Definition

Arguments

ctxId Title context ID, or request ID

mode Value representing the mode to be set

Return Values

Returns 0 upon normal termination.

Returns a negative value upon errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---|------------|---------------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ARGUMENT | 0×80550704 | Nonexistent value was specified |
| | 7 | for mode |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | Specified ID does not exist |

Description

This function is used to prevent the registration to TUS server with another owner's save data and keep the user from saving the TUS data and TUS variables into another owner's save data.

Since NP TUS is a system that is closed by each application, there is no TRC (Technical Requirements Checklist) requirement that prohibits the use of TUS in combination with another owner's save data. Performing a test may be difficult if using this function; thus, make sure to use this function only when it is really required according to the usage methods and policies of TUS for an application.

For example, if the account ID written in a memory card is different from the one written in the main unit, the memory card must be formatted before it is used with the main unit.

Therefore, it is not necessary to use this function when saving the save data in a memory card. Also, this function is not required if the TUS variable or the TUS data is not saved in the save data. For details, refer to the "Owner Identification When Inserting Memory Cards" chapter in the "System Software Overview" document.

For ctxId, specify the Title context ID or the request ID and for mode, specify the operation performed when another owner's save data is loaded.

When a title context is specified, the specified value will be used as the default value of the requests created from the title context. However, requests that already exist will not be affected.

Specify one of the following values in *mode*.

mode is handled as a bit pattern not a signed integer.

| Value | Description |
|-----------------------------------|--|
| SCE_NP_TUS_BINDMODE_ALL_FORBIDDEN | When the save data is owned by another user, both |
| | reference from and update to the server are prohibited |
| SCE_NP_TUS_BINDMODE_RDONLY | When the save data is owned by another user, reference |
| | from the server is only allowed |
| SCE_NP_TUS_BINDMODE_WRONLY | When the save data is owned by another user, update |
| | to the server is only allowed |
| SCE_NP_TUS_BINDMODE_RDWR | No restriction is applied even when the save data is |
| | owned by another user |
| SCE_NP_TUS_BINDMODE_DEFAULT | Default setting. |
| | SCE NP TUS BINDMODE RDWR is set |

Reference APIs and update APIs are as follows.

Reference APIs

SCE CONFIDENTIAL

```
sceNpTusGetMultiSlotVariable(), sceNpTusGetMultiSlotVariableVUser(),
sceNpTusGetMultiSlotVariableAsync(), sceNpTusGetMultiSlotVariableVUserAsync(),
sceNpTusGetMultiUserVariable(), sceNpTusGetMultiUserVariableVUser(),
sceNpTusGetMultiUserVariableAsync(), sceNpTusGetMultiUserVariableVUserAsync(),
sceNpTusGetData(), sceNpTusGetDataVUser(), sceNpTusGetDataAsync(),
sceNpTusGetDataVUserAsync(), sceNpTusGetMultiSlotDataStatus(),
sceNpTusGetMultiSlotDataStatusVUser(), sceNpTusGetMultiSlotDataStatusAsync(),
sceNpTusGetMultiSlotDataStatusVUserAsync(), sceNpTusGetMultiUserDataStatus(),
sceNpTusGetMultiUserDataStatusVUser(), sceNpTusGetMultiUserDataStatusAsync(),
sceNpTusGetMultiUserDataStatusVUserAsync()
```

Update APIs

```
sceNpTusSetMultiSlotVariable(), sceNpTusSetMultiSlotVariableVUser(),
sceNpTusSetMultiSlotVariableAsync(), sceNpTusSetMultiSlotVariableVUserAsync(),
sceNpTusAddAndGetVariable(), sceNpTusAddAndGetVariableVUser(),
sceNpTusAddAndGetVariableAsync(), sceNpTusAddAndGetVariableVUserAsync(),
sceNpTusTryAndSetVariable(), sceNpTusTryAndSetVariableVUser(),
sceNpTusTryAndSetVariableAsync(), sceNpTusTryAndSetVariableVUserAsync(),
sceNpTusDeleteMultiSlotVariable(), sceNpTusDeleteMultiSlotVariableVUser(),
sceNpTusDeleteMultiSlotVariableVUserAsync(),
sceNpTusDeleteMultiSlotVariableVUserAsync(), sceNpTusSetData(),
sceNpTusSetDataVUser(), sceNpTusSetDataAsync(), sceNpTusSetDataVUserAsync(),
sceNpTusDeleteMultiSlotData(), sceNpTusDeleteMultiSlotDataVUser(),
sceNpTusDeleteMultiSlotDataAsync(), sceNpTusDeleteMultiSlotDataVUserAsync()
```

When a restriction is applied, an error value

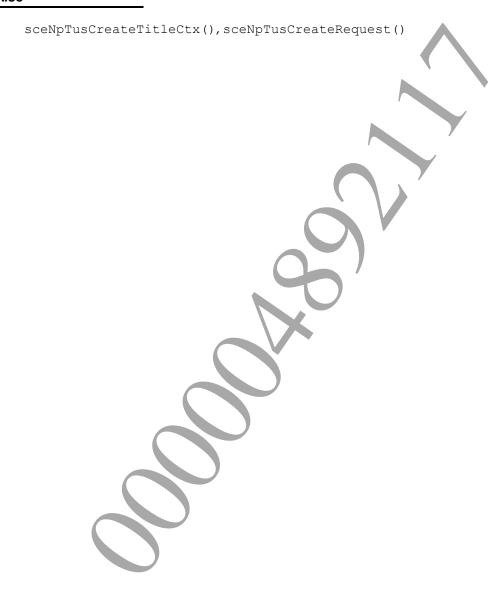
SCE_NP_COMMUNITY_ERROR_TUS_INVALID_SAVEDATA_OWNER is received as a return value for synchronous functions or as the result obtained with sceNpTusWaitAsync() or sceNpTusPollAsync() for asynchronous functions. No particular message is provided for this error; therefore, application should be designed to handle this error and inform the user that the application features are restricted because the save data is owned by another user.

Notes

It is possible to enable reference from and update to the TUS server irrespective of the owner of the save data by setting Game - Fake Trophy Earning in ★Debug Settings of system software to On. Whereas this feature can be used in the development environment and QA environment, it is disabled in the production environment.

For ★Debug Settings, refer to the "★Debug Settings Functions" section of the "System Software Overview" document.

See Also



sceNpTusAbortRequest

Abort communication processing

Definition

Arguments

reqId ID of the request to abort

Return Values

Returns 0 for normal termination.

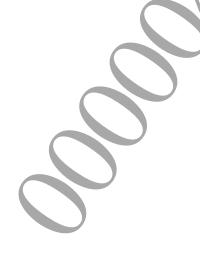
Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--|------------|---------------------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | ID specified for reqId does not exist |

Description

This function aborts the specified communication processing.

For reqId, specify the request ID for which communication processing is to be aborted.



sceNpTusWaitAsync, sceNpTusPollAsync

Get execution result of an asynchronous processing

Definition

Arguments

reqId Request ID

result Pointer to variable for storing the communication processing

Return Values

| Value | Description |
|-------|---|
| 0 | Asynchronous processing completed |
| 1 | Asynchronous processing is still being executed |

Returns a negative value for errors.

Description

This function obtains the execution result of an asynchronous communication processing.

For reqId, specify the ID of the request started by an asynchronous function [sceNpTusXXXAsync()].

sceNpTusWaitAsync() waits for the communication processing to complete if it hasn't already. It stores the result of the processing in *result and returns 0.

sceNpTusPollAsync () returns immediately if the communication processing has not completed, with a return value of 1. In this case, the value of *result does not change. If the processing has already completed, the function stores the result in *result and returns 0.

See Also

sceNpTusCreateRequest()



sceNpTusSetMultiSlotVariable, sceNpTusSetMultiSlotVariableVUser

Write values to multiple TUS variables of 1 user (synchronous)

Definition

```
#include <np.h>
int sceNpTusSetMultiSlotVariable (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        const SceNpTusSlotId slotIdArray[],
        const SceInt64 variableArray[],
        SceInt32 arrayNum,
        void *option
);
int sceNpTusSetMultiSlotVariableVUser
        SceInt32 reald,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        const SceNpTusSlotId slotIdArray[]
        const SceInt64 variableArray[],
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotIdArray
variableArray
arrayNum

option

Request ID (IN)

NP ID of user who is the write target (IN) ID of virtual user who is the write target (IN)

Pointer to the array storing the write target slot IDs (IN) Pointer to the array storing the 64-bit integers to write (IN)

Valid number of elements for slotIdArray.

Maximum is 64 (IN)

Option reserved for future extension. Always specify NULL

©SCEI

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---------------------------|-------------|--|
| SCE NP COMMUNITY ERROR | 0x80550702 | Library is not initialized |
| NOT INITIALIZED | | |
| SCE NP COMMUNITY ERROR | 0x80550704 | A negative value was specified in the array |
| INVALID_ARGUMENT | | specified for slotIdArray, 0 was specified for |
| | | arrayNum, or value other than NULL was |
| | | specified for option |
| SCE NP COMMUNITY ERROR | 0x80550707 | Communication processing was aborted with |
| ABORTED | 0,10000000 | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE NP COMMUNITY ERROR | 0x8055070c | NULL was specified for targetNpId, |
| INSUFFICIENT ARGUMENT | 0,100000700 | targetVirtualUserId, or variableArray |
| SCE NP COMMUNITY ERROR | 0x8055070e | ID specified for req1d does not exist |
| INVALID ID | 0.000550700 | in specified for regra does not exist |
| SCE NP COMMUNITY ERROR | 0x80550718 | Value exceeding 64 was specified for arrayNum |
| TOO MANY SLOTID | 0.100000110 | value exceeding of was specification array wass |
| SCE NP COMMUNITY SERVER | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE NP COMMUNITY SERVER | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE NP COMMUNITY SERVER | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | ~ ~ | on the title user storage server |
| SCE NP COMMUNITY SERVER | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | \ X | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| |) | library) |
| SCE NP COMMUNITY SERVER | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x8055082b | A storage for the specified user has not been |
| ERROR USER NOT ASSIGNED | | created yet |
| SCE NP COMMUNITY SERVER | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR USER STORAGE TITLE | | on the database of the title user storage server |
| MASTER_NOT_FOUND | | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550849 | Specified virtual user does not exist |
| ERROR_INVALID_VIRTUAL_ | | |
| USER | | |

Description

This function writes 64-bit integer values to the TUS variables corresponding to the specified slots of the specified user.

When writing values to TUS variables of an actual user, use sceNpTusSetMultiSlotVariable() and specify the user's NP ID for targetNpId. When writing values to TUS variables of a virtual user, use sceNpTusSetMultiSlotVariableVUser() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotIdArray</code>, specify the beginning address of the array storing the target slot IDs. This area must be 4-byte-aligned and continuous. Specify the number of valid elements for this array in <code>arrayNum</code>.

For *variableArray*, specify the beginning address of the array storing the values to be written. This area must be 8-byte-aligned and continuous.

The value of <code>variableArray[0]</code> will be written to the TUS variable of the slot specified in <code>slotIdArray[0]</code>. The value of <code>variableArray[1]</code> will be written to the TUS variable of the slot specified in <code>slotIdArray[1]</code>. This process is continued so that values are written all at once to the number of TUS variables as specified in <code>arrayNum</code>. If there is even one slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and write processing will not take place. If a timeout error occurs, however, the processing result will either be that values are written to all the specified TUS variables or to none of them.

If a value to be written to a TUS variable is outside the valid range set in the target TUS variable, it will be rounded up to the valid minimum value, or rounded down to the valid maximum value, and then stored.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling <code>sceNpTusDeleteRequest()</code>.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
SCE NP TUS MAX SLOT NUM PER REQUEST

sceNpTusSetMultiSlotVariableAsync, sceNpTusSetMultiSlotVariableVUserAsync

Write values to multiple TUS variables of 1 user (asynchronous)

Definition

```
#include <np.h>
int sceNpTusSetMultiSlotVariableAsync (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        const SceNpTusSlotId slotIdArray[],
        const SceInt64 variableArray[],
        SceInt32 arrayNum,
        void *option
);
int sceNpTusSetMultiSlotVariableVUserAsync
        SceInt32 reald,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        const SceNpTusSlotId slotIdArray[]
        const SceInt64 variableArray[],
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId Request ID (IN)

targetNpId NP ID of user who is the write target (IN)

targetVirtualUserId ID of virtual user who is the write target (IN)

slotIdArray Pointer to the array storing the write target slot IDs (IN)

variableArray Pointer to the array storing the 64-bit integers to write (IN)

variayNum Valid number of elements for slotIdArray.

Maximum is 64 (IN)

option Option reserved for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---|------------|---------------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ARGUMENT | 0x80550704 | 0 was specified for arrayNum, |
| | | or value other than NULL was |
| | | specified for option |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | ID specified for reqId does not |
| | | exist |

Description

This function writes 64-bit integer values to the TUS variables corresponding to the specified slots of the specified user.

When writing values to TUS variables of an actual user, use

sceNpTusSetMultiSlotVariableAsync() and specify the user's NP ID for targetNpId. When writing values to TUS variables of a virtual user, use

sceNpTusSetMultiSlotVariableVUserAsync() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotIdArray</code>, specify the beginning address of the array storing the target slot IDs. This area must be 4-byte-aligned and continuous. Specify the number of valid elements for this array in <code>arrayNum</code>.

For *variableArray*, specify the beginning address of the array storing the values to be written. This area must be 8-byte-aligned and continuous.

The value of <code>variableArray[0]</code> will be written to the TUS variable of the slot specified in <code>slotIdArray[0]</code>. The value of <code>variableArray[1]</code> will be written to the TUS variable of the slot specified in <code>slotIdArray[1]</code>. This process is continued so that values are written all at once to the number of TUS variables as specified in <code>arrayNum</code>. If there is even one slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and write processing will not take place. If a timeout error occurs, however, the processing result will either be that values are written to all the specified TUS variables or to none of them.

If a value to be written to a TUS variable is outside the valid range set in the target TUS variable, it will be rounded up to the valid minimum value, or rounded down to the valid maximum value, and then stored.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained after confirming that processing has completed using sceNpTusWaitAsync(), for example. The processing will be performed on an internal thread created by sceNpTusInit().

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

See Also

sceNpTusCreateRequest(),sceNpTusDeleteRequest(),sceNpTusAbortRequest(),
sceNpTusWaitAsync(),sceNpTusPollAsync(),SCE_NP_TUS_MAX_SLOT_NUM_PER REQUEST

sceNpTusGetMultiSlotVariable, sceNpTusGetMultiSlotVariableVUser

Read out multiple TUS variables of 1 user (synchronous)

Definition

```
#include <np.h>
int sceNpTusGetMultiSlotVariable (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        const SceNpTusSlotId slotIdArray[],
        SceNpTusVariable variableArray[],
        SceSize variableArraySize,
        SceInt32 arrayNum,
        void *option
);
int sceNpTusGetMultiSlotVariableVUser
        SceInt32 reald,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        const SceNpTusSlotId slotIdArray[],
        SceNpTusVariable variableArray[]
        SceSize variableArraySize,
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotIdArray
variableArray
variableArraySize
arrayNum
option

Request ID (IN)

NP ID of user who is the read source (IN) ID of virtual user who is the read source (IN)

Pointer to the array storing the read source slot IDs (IN)

Pointer to the array for storing the read TUS variable information (OUT)

Memory size of variableArray (IN)

Valid number of elements for slotIdArray. Maximum is 64. (IN)

Option reserved for future extension. Always specify NULL

Return Values

Returns the number of the read TUS variables (>=0) for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---------------------------|------------|--|
| SCE NP COMMUNITY ERROR | 0x80550702 | Library is not initialized |
| NOT INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified in the array |
| INVALID_ARGUMENT | | specified for slotIdArray, 0 was specified for |
| | | arrayNum, or value other than NULL was |
| | | specified for option |
| SCE NP COMMUNITY ERROR | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE NP COMMUNITY ERROR | 0x8055070c | NULL was specified for targetNpId or |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserId |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for req1d does not exist |
| INVALID_ID | | 1 |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | Structure size specified in variableArraySize is |
| INVALID_ALIGNMENT | | invalid |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550718 | Value exceeding 64 was specified for arrayNum |
| TOO_MANY_SLOTID | | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | \ X | on the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ |) | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR_USER_STORAGE_TITLE_ | | on the database of the title user storage server |
| MASTER_NOT_FOUND | | Ů |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550849 | Specified virtual user does not exist |
| ERROR_INVALID_VIRTUAL_ | | |
| USER | | |

Description

This function reads the TUS variables corresponding to the specified slots of the specified user.

When reading values from TUS variables of an actual user, use

sceNpTusGetMultiSlotVariable() and specify the user's NP ID for targetNpId. When reading values from TUS variables of a virtual user, use sceNpTusGetMultiSlotVariableVUser() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotIdArray</code>, specify the beginning address of the array storing the read source slot IDs. This area must be 4-byte-aligned and continuous. For <code>variableArray</code>, specify the beginning address of the array for storing the read TUS values. This area must be 8-byte-aligned and continuous, and its size must be larger than or equal to the value specified for <code>variableArraySize</code>. Specify the number of valid elements for these arrays in <code>arrayNum</code>, and <code>specify arrayNum*sizeof(SceNpTusVariable)</code> for <code>variableArraySize</code>.

The TUS variable of the slot specified in <code>slotIdArray[0]</code> will be read and stored in <code>variableArray[0]</code>. The TUS variable of the slot specified in <code>slotIdArray[1]</code> will be read and stored in <code>variableArray[1]</code>. This process is continued so that values are read all at once from the number of TUS variables as specified in <code>arrayNum</code> and stored in <code>variableArray</code>. If there is even one slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and read processing will not take place. If a timeout error occurs, however, the processing result will either be that values are read from all the TUS variables or from none of them.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
SCE NP TUS MAX SLOT NUM PER REQUEST



sceNpTusGetMultiSlotVariableAsync, sceNpTusGetMultiSlotVariableVUserAsync

Read out multiple TUS variables of 1 user (asynchronous)

Definition

```
#include <np.h>
int sceNpTusGetMultiSlotVariableAsync (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        const SceNpTusSlotId slotIdArray[],
        SceNpTusVariable variableArray[],
        SceSize variableArraySize,
        SceInt32 arrayNum,
        void *option
);
int sceNpTusGetMultiSlotVariableVUserAsync
        SceInt32 regId,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        const SceNpTusSlotId slotIdArray[],
        SceNpTusVariable variableArray[]
        SceSize variableArraySize,
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotIdArray
variableArray
variableArraySize
arrayNum
option

Request ID (IN)

NP ID of user who is the read source (IN) ID of virtual user who is the read source (IN)

Pointer to the array storing the read source slot IDs (IN)

Pointer to the array for storing the read TUS variable information (OUT)

Memory size of variableArray (IN)

Valid number of elements for slotIdArray. Maximum is 64 (IN)

Option reserved for future extension. Always specify NULL

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--|------------|----------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ARGUMENT | 0x80550704 | 0 was specified for |
| | | arrayNum, or value other |
| | | than NULL was specified |
| | | for option |
| SCE_NP_COMMUNITY_ERROR_INSUFFICIENT_ARGUMENT | 0x8055070c | NULL was specified for |
| | | targetNpId or |
| | | targetVirtualUser |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | ID specified for reqId |
| | | does not exist |

Description

This function reads the TUS variables corresponding to the specified slots of the specified user.

When reading values from TUS variables of an actual user, use

sceNpTusGetMultiSlotVariableAsync() and specify the user's NP ID for targetNpId. When reading values from TUS variables of a virtual user, use

sceNpTusGetMultiSlotVariableVUserAsync() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotIdArray</code>, specify the beginning address of the array storing the read source slot IDs. This area must be 4-byte-aligned and continuous. For <code>variableArray</code>, specify the beginning address of the array for storing the read TUS values. This area must be 8-byte-aligned and continuous, and its size must be larger than or equal to the value specified for <code>variableArraySize</code>. Specify the number of valid elements for these arrays in <code>arrayNum</code>, and <code>specify arrayNum*sizeof(SceNpTusVariable)</code> for <code>variableArraySize</code>.

The TUS variable of the slot specified in <code>slotIdArray[0]</code> will be read and stored in <code>variableArray[0]</code>. The TUS variable of the slot specified in <code>slotIdArray[1]</code> will be read and stored in <code>variableArray[1]</code>. This process is continued so that values are read all at once from the number of TUS variables as specified in <code>arrayNum</code> and stored in <code>variableArray</code>. If there is even one slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and read processing will not take place. If a timeout error occurs, however, the processing result will either be that values are read from all the TUS variables or from none of them.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained after confirming that processing has completed using sceNpTusWaitAsync(), for example. The processing will be performed on an internal thread created by sceNpTusInit().

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), SCE_NP_TUS_MAX_SLOT_NUM_PER_REQUEST

sceNpTusGetMultiUserVariable, sceNpTusGetMultiUserVariableVUser

Read 1 TUS variable of multiple users (synchronous)

Definition

```
#include <np.h>
int sceNpTusGetMultiUserVariable (
        SceInt32 reqId,
        const SceNpId targetNpIdArray[],
        SceNpTusSlotId slotId,
        SceNpTusVariable variableArray[],
        SceSize variableArraySize,
        SceInt32 arrayNum,
        void *option
);
int sceNpTusGetMultiUserVariableVUser
        SceInt32 regId,
        const SceNpTusVirtualUserId targetVirtualUserIdArray[],
        SceNpTusSlotId slotId,
        SceNpTusVariable variableArray[
        SceSize variableArraySize,
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId
targetNpIdArray

targetVirtualUserIdArray

slotId
variableArray

variableArraySize
arrayNum

option

Request ID (IN)

Pointer to the array storing the NP IDs of users who are the read source (IN)

Pointer to the array storing the NP IDs of virtual users who are the read source (IN)

Read source slot ID (IN)

Pointer to the array for storing the read TUS variable information (OUT)

Memory size of variableArray (IN)

Valid number of elements for targetNpIdArray or targetVirtualUserIdArray. Maximum is 101 (IN)

Option reserved for future extension. Always specify NULL

Returns the number of the read TUS variables (>=0) for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--------------------------------|------------|--|
| SCE NP COMMUNITY ERROR | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | a negative value was specified for <code>slotId</code> , 0 was |
| INVALID_ARGUMENT | | specified for arrayNum, or value other than NULL |
| | | was specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpIdArray, |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserIdArray,or |
| | | variableArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqld does not exist |
| INVALID_ID | | - / |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | Structure size specified in variableArraySize is |
| INVALID_ALIGNMENT | | invalid |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550719 | A value exceeding |
| TOO_MANY_NPID | | SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM has |
| | | been specified for arrayNum |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | | on the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR_USER_STORAGE_TITLE_ | | on the database of the title user storage server |
| MASTER_NOT_FOUND | 0.00550016 | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550849 | Specified virtual user does not exist |
| ERROR_INVALID_VIRTUAL_ USER | | |
| ODLIC | 1 | |

This function reads 1 TUS variable corresponding to the specified slot of the specified users.

When reading the TUS variable of actual users, use sceNpTusGetMultiUserVariable() and specify the array storing the NP IDs of those users for <code>targetNpIdArray</code>. When reading the TUS variable of virtual users, use <code>sceNpTusGetMultiUserVariableVUser()</code> and specify the virtual user ID array for <code>targetVirtualUserIdArray</code>.

For arrayNum, specify the number of valid elements for these arrays.

For <code>slotId</code>, specify the read source slot ID. For <code>variableArray</code>, specify the beginning address of the array for storing the read TUS variable values. This area must be 8-byte-aligned and continuous, and its size must be larger than or equal to the value specified for <code>variableArraySize</code>. Specify <code>arrayNum*sizeof(SceNpTusVariable)</code> to <code>variableArraySize</code>.

The TUS variable of the user specified in <code>targetNpIdArray[0]</code> or <code>targetVirtualUserIdArray[0]</code> will be read and stored in <code>variableArray[0]</code>. The TUS variable of the user specified in <code>targetNpIdArray[1]</code> or <code>targetVirtualUserIdArray[1]</code> will be read and stored in <code>variableArray[1]</code>. This process is continued so that the TUS variables for the number of users as specified in <code>arrayNum</code> are read all at once, and stored in <code>variableArray</code>.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

Notes

There are no counterparts of these functions, by which a write is performed to the TUS variable of multiple users all at once. This is because, given the design of the title user storage server, processing performed over multiple users cannot be efficiently handled.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusGetMultiUserVariableAsync(), sceNpTusGetMultiUserVariableVUserAsync(),
SCE_NP_TUS_MAX_USER_NUM_PER_REQUEST



sceNpTusGetMultiUserVariableAsync, sceNpTusGetMultiUserVariableVUserAsync

Read 1 TUS variable of multiple users (asynchronous)

Definition

```
#include <np.h>
int sceNpTusGetMultiUserVariableAsync (
        SceInt32 reqId,
        const SceNpId targetNpIdArray[],
        SceNpTusSlotId slotId,
        SceNpTusVariable variableArray[],
        SceSize variableArraySize,
        SceInt32 arrayNum,
        void *option
);
int sceNpTusGetMultiUserVariableVUserAsync
        SceInt32 regId,
        const SceNpTusVirtualUserId targetVirtualUserIdArray[],
        SceNpTusSlotId slotId,
        SceNpTusVariable variableArray[
        SceSize variableArraySize,
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId
targetNpIdArray

targetVirtualUserIdArray

slotId
variableArray

variableArraySize
arrayNum

option

Request ID (IN)

Pointer to the array storing the NP IDs of users who are the read source (IN)

Pointer to the array storing the NP IDs of virtual users who are the read source (IN)

Read source slot ID (IN)

Pointer to array for storing the read TUS variable information (OUT)

Memory size of variableArray (IN)

Valid number of elements for targetNpIdArray or targetVirtualUserIdArray. Maximum is 101 (IN)

Option reserved for future extension. Always specify NULL

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|-------------------------|------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | a negative value was specified for slotId, 0 was |
| INVALID_ARGUMENT | | specified for arrayNum, or value other than NULL |
| | | was specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpIdArray, |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserIdArray,orvariableArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | |

Description

This function reads 1 TUS variable corresponding to the specified slot of the specified users.

When reading the TUS variable of actual users, use scenpTusGetMultiUserVariableAsync() and specify the array storing the NP IDs of those users for targetNpIdArray. When reading the TUS variable of virtual users, use scenpTusGetMultiUserVariableVUserAsync() and specify the virtual user ID array for targetVirtualUserIdArray.

For arrayNum, specify the number of valid elements for these arrays.

For <code>slotId</code>, specify the read source slot ID. For <code>variableArray</code>, specify the beginning address of the array for storing the read TUS variable values. This area must be 8-byte-aligned and continuous, and its size must be larger than or equal to the value specified for <code>variableArraySize</code>. Specify <code>arrayNum*sizeof(SceNpTusVariable)</code> to <code>variableArraySize</code>.

The TUS variable of the user specified in <code>targetNpIdArray[0]</code> or <code>targetVirtualUserIdArray[0]</code> will be read and stored in <code>variableArray[0]</code>. The TUS variable of the user specified in <code>targetNpIdArray[1]</code> or <code>targetVirtualUserIdArray[1]</code> will be read and stored in <code>variableArray[1]</code>. This process is continued so that the TUS variables for the number of users as specified in <code>arrayNum</code> are read all at once, and stored in <code>variableArray</code>.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained using <code>sceNpTusWaitAsync()</code>, for example. The processing will be performed on an internal thread created by <code>sceNpTusInit()</code>.

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

Notes

There are no counterparts of these functions, by which a write is performed to the TUS variable of multiple users all at once. This is because, given the design of the title user storage server, processing performed over multiple users cannot be efficiently handled.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusGetMultiUserVariable(),
sceNpTusGetMultiUserVariableVUser(), SCE_NP_TUS_MAX_USER_NUM_PER_REQUEST

©SCEI

sceNpTusGetFriendsVariable

Specify sort conditions and read TUS variables for the top user results (up to 100) from among friends (synchronous)

Definition

```
#include <np.h>
int sceNpTusGetFriendsVariable (
        SceInt32 reald,
        SceNpTusSlotId slotId,
        SceBool includeSelf,
        SceInt32 sortType,
        SceNpTusVariable variableArray[],
        SceSize variableArraySize,
        SceInt32 arrayNum,
        SceNpTusGetFriendsVariableOptParam *opt
);
```

Arguments

Request ID (IN) regId

slotId Read source slot ID (IN)

includeSelf Flag to indicate whether the current user's TUS variable is to be included in

the target variables to obtain or not.

Specify any number besides 0 to include and 0 to exclude (IN)

sortType Friend sort conditions (IN)

Pointer to array for storing the read TUS variable information (OUT) variableArray

variableArraySize Memory size of variableArray (IN) arrayNum Number of TUS variables to obtain.

Up to SCE NP TUS MAX SELECTED FRIENDS NUM (100) (IN)

Pointer to extended option structure. option

Specify NULL if not required



Returns the number of the read TUS variables (>=0) for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---------------------------|------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified for slotId, or 0 was |
| INVALID_ARGUMENT | | specified for arrayNum, or value other than NULL |
| | | was specified for option |
| SCE NP COMMUNITY ERROR | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE NP COMMUNITY ERROR | 0x8055070c | NULL was specified for variableArray |
| INSUFFICIENT ARGUMENT | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for regld does not exist |
| INVALID_ID | | 1 |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | Structure size specified in variableArraySize is |
| INVALID_ALIGNMENT | | invalid |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550719 | Value exceeding |
| TOO_MANY_NPID | | SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM was |
| | | specified for arrayNum |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered on |
| ERROR_NO_SUCH_TITLE | \ X | the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | b | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x80550848 | 5 / |
| ERROR_USER_STORAGE_TITLE_ | | |
| MASTER_NOT_FOUND | | |
| ERROR_USER_STORAGE_TITLE_ | 0x80550848 | Specified NP Communication ID is not registered on the database of the title user storage server |

This function specifies a single slot and sort conditions, then reads the TUS variables for the top friend results.

For *includeSelf*, specify any number besides 0 to include the current user in the target TUS variables to obtain, and specify 0 to exclude the current user in the target variables.

For arrayNum, specify the maximum number of users whose TUS variables will be obtained in the top results.

For *slotId*, specify the read source slot ID.

For *variableArray*, specify the beginning address of the array for storing the read TUS variables. This area must be 8-byte-aligned and continuous, and its size must be larger than or equal to the value specified for *variableArraySize*.

Specify arrayNum*sizeof (SceNpTusVariable) to variableArraySize.

For *sortType*, specify the friend sort conditions with one of the following values.

| Value | Description |
|---|-----------------------------------|
| SCE_NP_TUS_VARIABLE_SORTTYPE_DESCENDING_VALUE | Sorts the TUS variable numerical |
| | values in descending order |
| SCE_NP_TUS_VARIABLE_SORTTYPE_ASCENDING_VALUE | Sorts the TUS variable numerical |
| | values in ascending order |
| SCE_NP_TUS_VARIABLE_SORTTYPE_DESCENDING_DATE | Sorts by last update date/time in |
| | descending order |
| SCE_NP_TUS_VARIABLE_SORTTYPE_ASCENDING_DATE | Sorts by last update date/time in |
| | ascending order |

In, *variableArray*, the friend TUS variables will be stored from the top sort result up to the number specified with *arrayNum*.

The number of stored TUS variables will return as the function return value.

If not even one friend TUS variable was registered, the return value will be 0 and normal termination will occur.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusGetFriendsVariableAsync(), sceNpTusGetFriendsDataStatus(),
sceNpTusGetFriendsDataStatusAsync(), SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM,
SceNpTusGetFriendsVariableOptParam

sceNpTusGetFriendsVariableAsync

Specify sort conditions and read TUS variables for the top user results (up to 100) from among friends (asynchronous)

Definition

Arguments

reqId Request ID (IN)

slotId Read source slot ID (IN)

includeSelf Flag to indicate whether the current user's TUS variable is to be included in

the target variables to obtain or not.

Specify any number besides 0 to include and 0 to exclude (IN)

sortType Friend sort conditions (IN)

variableArray Pointer to array for storing the read TUS variable information (OUT)

variableArraySize Memory size of variableArray (IN) arrayNum Number of TUS variables to obtain.

Up to SCE NP TUS MAX SELECTED FRIENDS NUM (100) (IN)

option Pointer to extended option structure.

Specify NULL if not required

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|-------------------------|------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | · |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified for <code>slotId</code> , 0 was |
| INVALID_ARGUMENT | | specified for arrayNum, or value other than NULL |
| | | was specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for variableArray |
| INSUFFICIENT_ARGUMENT | | - |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | • |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | Structure size specified in variableArraySize is |
| INVALID_ALIGNMENT | | invalid |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550719 | Value exceeding |
| TOO_MANY_NPID | | SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM was |
| | | specified for arrayNum |

This function specifies a single slot and sort conditions, then reads the TUS variables for the top friend results.

For <code>includeSelf</code>, specify any number besides 0 to include the current user in the target TUS variables to obtain, and specify 0 to exclude the current user in the target variables.

For arrayNum, specify the maximum number of users whose TUS variables will be obtained in the top results.

For *slotId*, specify the read source slot ID.

For <code>variableArray</code>, specify the beginning address of the array for storing the read TUS variables. This area must be 8-byte-aligned and continuous, and its size must be larger than or equal to the value specified for <code>variableArraySize</code>. Specify <code>arrayNum*sizeof(SceNpTusVariable)</code> to <code>variableArraySize</code>.

For *sortType*, specify the friend sort conditions with one of the following values.

| Value | Description |
|---|-----------------------------------|
| SCE_NP_TUS_VARIABLE_SORTTYPE_DESCENDING_VALUE | Sorts the TUS variable numerical |
| | values in descending order |
| SCE_NP_TUS_VARIABLE_SORTTYPE_ASCENDING_VALUE | Sorts the TUS variable numerical |
| | values in ascending order |
| SCE_NP_TUS_VARIABLE_SORTTYPE_DESCENDING_DATE | Sorts by last update date/time in |
| | descending order |
| SCE_NP_TUS_VARIABLE_SORTTYPE_ASCENDING_DATE | Sorts by last update date/time in |
| | ascending order |

In, variableArray, the friend TUS variables will be stored from the top sort result up to the number specified with arrayNum.

The number of TUS variables stored in variableArray will be stored in result in sceNpTusWaitAsync()/sceNpTusPollAsync(). If not even one friend TUS variable was registered, 0 will be stored in result and normal termination will occur.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained using <code>sceNpTusWaitAsync()</code>, for example. The processing will be performed on an internal thread created by <code>sceNpTusInit()</code>.

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusGetFriendsVariable(),
sceNpTusGetFriendsDataStatus(), sceNpTusGetFriendsDataStatusAsync(),
SCE NP TUS MAX SELECTED FRIENDS_NUM, SceNpTusGetFriendsVariableOptParam

sceNpTusAddAndGetVariable, sceNpTusAddAndGetVariableVUser

Add a 64-bit integer to a TUS variable and get the result of the addition (synchronous)

Definition

```
#include <np.h>
int sceNpTusAddAndGetVariable (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        SceNpTusSlotId slotId,
        SceInt64 inVariable,
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        SceNpTusVariable *outVariable,
        SceSize outVariableSize,
        void *option
);
int sceNpTusAddAndGetVariableVUser (
        SceInt32 regId,
        const SceNpTusVirtualUserId
                                     *targetVirtualUserId,
        SceNpTusSlotId slotId,
        SceInt64 inVariable,
        const SceNpId *isLastChangedAutho
        const SceRtcTick *isLastChangedDate,
        SceNpTusVariable *outVariable,
        SceSize outVariableSize,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotId
inVariable
isLastChangedAuthor

Request ID (IN)

NP ID of the target user (IN)
ID of the target virtual user (IN)
Target slot ID (IN)

64-bit integer to add (IN)

Specification of the author of the update for conflict prevention.

Addition is only executed when the author of the last update of the TUS

variable currently registered on the server is identical with the specified NP ID. Processing is not performed when no TUS variables are registered on the server. Specify NULL if comparison is not necessary

(IN)

isLastChangedDate Specification of the date and time for conflict prevention.

Addition is only executed when the time of the last update of the TUS variable currently registered on the server is identical with or older than the specified time. Processing is not performed when no TUS variables are registered on the server. Specify NULL if comparison is not

necessary (IN)

outVariable Pointer to structure for storing the TUS variable information after the

addition (OUT)

outVariableSize Memory size of outVariable (IN)

option Option for future extension. Always specify NULL

©SCEI

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---|-------------|--|
| SCE NP COMMUNITY ERROR | 0x80550702 | Library is not initialized |
| NOT INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | Value other than NULL was specified for option, |
| INVALID_ARGUMENT | | or a negative value was specified for slotId |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpId or |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserId |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | 0.0055054.4 | |
| SCE_NP_COMMUNITY_ERROR_ INVALID ALIGNMENT | 0x80550714 | Structure size specified for outVariableSize is |
| _ | 0.00550006 | invalid |
| SCE_NP_COMMUNITY_SERVER_ ERROR FORBIDDEN | 0x80550806 | Specified slot does not exist, or access privilege has |
| _ | 0.00550010 | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ ERROR INVALID ANTICHEAT | 0x80550819 | Authentication error. |
| DATA | | Usually occurs with an error in |
| SCE NP COMMUNITY SERVER | 0x805508a6 | SceNpCommunicationPassphrase Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | 0x805508a0 | on the title user storage server |
| SCE NP COMMUNITY SERVER | 0x805508aa | Title user storage service for the specified NP |
| ERROR TITLE USER STORAGE | 0.00550044 | Communication ID has not started yet |
| BEFORE SERVICE | | (Corresponding message is in the Message Dialog |
| _ | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x8055082b | A storage for the specified user has not been |
| ERROR_USER_NOT_ASSIGNED | | created yet |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR_USER_STORAGE_TITLE_ | | on the database of the title user storage server |
| MASTER NOT FOUND | 0.20550240 | Charified wintual user does not evict |
| SCE_NP_COMMUNITY_SERVER_ ERROR INVALID VIRTUAL | 0x80550849 | Specified virtual user does not exist |
| USER USER | | |
| SCE NP COMMUNITY SERVER | 0x80550873 | Processing could not be executed because a conflict |
| ERROR_CONDITIONS_NOT_ | | was detected against the specification of |
| SATISFIED | | isLastChangedAuthor and/or |
| | | isLastChangedDate |
| | | |

This function adds a 64-bit integer to a TUS variable corresponding to the specified slot of the specified user.

When adding a value to the TUS value of an actual user, use <code>sceNpTusAddAndGetVariable()</code> and specify the user's NP ID for <code>targetNpId</code>. When adding a value to the TUS value of a virtual user, use <code>sceNpTusAddAndGetVariableVUser()</code> and specify the virtual user's ID for <code>targetVirtualUserId</code>.

For <code>slotId</code>, specify the slot ID indicating the target TUS variable. Specify the 64-bit value to add to that TUS variable in <code>invariable</code>. It is also possible to subtract from the TUS variable by specifying a negative value for <code>invariable</code>.

The result of the addition will be stored in the area specified by <code>outVariable</code> (the <code>variable</code> member will represent the value after the addition). Specify <code>sizeof(SceNpTusVariable)</code> for <code>outVariableSize</code>.

If the value after the addition is outside the valid value range set beforehand to the TUS variable, it will be rounded down to the valid maximum value or rounded up to the valid minimum value, and then stored.

If a value has not been set to the TUS variable yet, this function will handle processing as though 0 had been set. However, an error will occur if the specified user has never accessed the title user storage server, and the function will return SCE_NP_COMMUNITY_SERVER_ERROR_USER_NOT_ASSIGNED.

Also, when the author and time of the last update are specified in <code>isLastChangedAuthor</code> and <code>isLastChangedDate</code>, respectively, these will be checked against the values that have been set on the server, and, if they are different, writing will fail and an error will return. An error will also return if no values have been set on the server (if they have been deleted). This feature was devised to be used in cases where you wish to have only the operations of the first user reflected when multiple users have performed operations in the same slot. If exclusive processing is not necessary, specify NULL.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling <code>sceNpTusDeleteRequest()</code>.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusAddAndGetVariableAsync(), sceNpTusAddAndGetVariableVUserAsync()

sceNpTusAddAndGetVariableAsync, sceNpTusAddAndGetVariableVUserAsync

Add a 64-bit integer to a TUS variable and get the result of the addition (asynchronous)

Definition

```
#include <np.h>
int sceNpTusAddAndGetVariableAsync (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        SceNpTusSlotId slotId,
        SceInt64 inVariable,
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        SceNpTusVariable *outVariable,
        SceSize outVariableSize,
        void *option
);
int sceNpTusAddAndGetVariableVUserAsync
        SceInt32 regId,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        SceNpTusSlotId slotId,
        SceInt64 inVariable,
        const SceNpId *isLastChangedAuthor
        const SceRtcTick *isLastChangedDate,
        SceNpTusVariable *outVariable,
        SceSize outVariableSize,
        void *option
);
```

Arguments

Request ID (IN) reqId NP ID of the target user (IN) targetNpId targetVirtualUserId ID of the target virtual user (IN) slotId Target slot ID (IN) inVariable 64-bit integer to add (IN) isLastChangedAuthor Specification of the author of the update for conflict prevention. Addition is only executed when the author of the last update of the TUS variable currently registered on the server is identical with the specified NP ID. Processing is not performed when no TUS variables are registered on the server. Specify NULL if comparison is not necessary isLastChangedDat Specification of the date and time for conflict prevention. Addition is only executed when the time of the last update of the TUS variable currently registered on the server is identical with or older than the specified time. Processing is not performed when no TUS variables are registered on the server. Specify NULL if comparison is not necessary (IN) outVariable Pointer to structure for storing the TUS variable information after the addition (OUT) outVariableSize Memory size of outVariable (IN) option Option for future extension. Always specify NULL

©SCEI

SCE CONFIDENTIAL

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---|------------|------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not |
| | | initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ARGUMENT | 0x80550704 | Value other than |
| | | NULL was specified |
| | | for option |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | ID specified for |
| | | reqId does not exist |
| SCE_NP_COMMUNITY_SERVER_ERROR_USER_NOT_ASSIGNED | 0x8055082b | A storage for the |
| | , | specified user has not |
| | | been created yet |

Description

This function adds a 64-bit integer to a TUS variable corresponding to the specified slot of the specified user.

When adding a value to the TUS value of an actual user, use sceNpTusAddAndGetVariableAsync(), and specify the user's NP ID for targetNpId. When adding a value to the TUS value of a virtual user, use

sceNpTusAddAndGetVariableVUserAsync() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotId</code>, specify the slot ID indicating the target TUS variable. Specify the 64-bit value to add to that TUS variable in <code>invariable</code>. It is also possible to subtract from the TUS variable by specifying a negative value for <code>invariable</code>.

The result of the addition will be stored in the area specified by <code>outVariable</code> (the <code>variable</code> member will represent the value after the addition). Specify <code>sizeof(SceNpTusVariable)</code> for <code>outVariableSize</code>.

If the value after the addition is outside the valid value range set beforehand to the TUS variable, it will be rounded down to the valid maximum value or rounded up to the valid minimum value, and then stored.

If a value has not been set to the TUS variable yet, this function will handle processing as though 0 had been set. However, an error will occur if the specified user has never accessed the title user storage server, and the function will return SCE_NP_COMMUNITY_SERVER_ERROR_USER_NOT_ASSIGNED.

Also, when the author and time of the last update are specified in <code>isLastChangedAuthor</code> and <code>isLastChangedDate</code>, respectively, these will be checked against the values that have been set on the server, and, if they are different, writing will fail and an error will return. An error will also return if no values have been set on the server (if they have been deleted). This feature was devised to be used in cases where you wish to have only the operations of the first user reflected when multiple users have performed operations in the same slot. If exclusive processing is not necessary, specify NULL.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained using <code>sceNpTusWaitAsync()</code>, for example. The processing will be performed on an internal thread created by <code>sceNpTusInit()</code>. After obtaining the result of the processing, call <code>sceNpTusDeleteRequest()</code> to delete the used

©SCEI

request ID.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusAddAndGetVariable(),
sceNpTusAddAndGetVariableVUser()



sceNpTusTryAndSetVariable, sceNpTusTryAndSetVariableVUser

Conditionally write a 64-bit integer to a TUS variable (synchronous)

Definition

```
#include <np.h>
int sceNpTusTryAndSetVariable (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        SceNpTusSlotId slotId,
        SceInt32 opeType,
        SceInt64 variable,
        const SceInt64 *compareValue,
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        SceNpTusVariable *resultVariable,
        SceSize resultVariableSize,
        void *option
);
int sceNpTusTryAndSetVariableVUser
        SceInt32 regId,
                                      *targetVirtualUserId,
        const SceNpTusVirtualUserId
        SceNpTusSlotId slotId,
        SceInt32 opeType,
        SceInt64 variable,
        const SceInt64 *compareValue
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        SceNpTusVariable *resultVariable,
        SceSize resultVariableSize,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotId
opeType
variable
compareValue

isLastChangedAuthor

Request ID (IN)
NI ID of the target user (IN)
ID of the target virtual user (IN)
Target slot ID (IN)
Value representing the write condition (IN)
64-bit integer to write (IN)

64-bit integer to be compared with the value registered on the server. If NULL is specified, the value of <code>variable</code> will be used for comparison Specification of the author of the update for conflict prevention. Processing is only executed when the author of the last update of the TUS variable currently registered on the server is identical with the specified NP ID. Processing is not performed when no TUS variables are registered on the server. Specify NULL if comparison is not necessary

SCE CONFIDENTIAL

Specification of the date and time for conflict prevention.

Processing is only executed when the time of the last update of the TUS variable currently registered on the server is identical with or older than the specified time. Processing is not performed when no TUS variables are registered on the server. Specify NULL if comparison is not necessary (IN)

Pointer to structure for storing the TUS variable information after the processing (OUT)

resultVariableSize option

Specification of the date and time for conflict prevention.

Processing is only executed when the time of the last update of the TUS variables are registered on the server. Specify NULL if comparison is not necessary (IN)

Pointer to structure for storing the TUS variable information after the processing (OUT)

Size of the ScenptusVariable structure (IN)

Option for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.) This function does not handle it as an error when the specified condition is not met and the write does not take place.

| Value | (Number) | Description |
|---------------------------|------------|--|
| SCE NP COMMUNITY ERROR | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | 7/ |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified for slotId, a |
| INVALID_ARGUMENT | | nonexistent value was specified for opeType, or |
| | | value other than NULL was specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpId, |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserId, or resultVariable |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550711 | Value not defined was specified for opeType |
| INVALID_TYPE | V | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA |) | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | | on the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x8055082b | A storage for the specified user has not been |
| ERROR_USER_NOT_ASSIGNED | | created yet |

| Value | (Number) | Description |
|---|------------|---|
| SCE_NP_COMMUNITY_SERVER_ ERROR_USER_STORAGE_TITLE_ MASTER_NOT_FOUND | 0x80550848 | Specified NP Communication ID is not registered on the database of the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ ERROR_INVALID_VIRTUAL_ USER | 0x80550849 | Specified virtual user does not exist |
| SCE_NP_COMMUNITY_SERVER_ ERROR_CONDITIONS_NOT_ SATISFIED | 0x80550873 | Processing could not be executed because a conflict was detected against the specification of <pre>isLastChangedAuthor and/or isLastChangedDate</pre> |

This function writes a 64-bit integer to a TUS variable corresponding to the specified slot of the specified user. Before writing, the function compares the current value and the value to be written, and performs the write if the specified condition is met.

When writing a value to the TUS variable of an actual user, use 'sceNpTusTryAndSetVariable() and specify the user's NP ID for targetNpId. When writing a value to the TUS variable of a virtual user, use sceNpTusTryAndSetVariableVUser() and specify the virtual user's ID for targetVirtualUserId.

For slotId, specify the slot ID indicating the target TUS variable.

For opeType, specify one of the following values as the condition for performing a write.

| Value | Description |
|-------------------------------------|--|
| SCE_NP_TUS_OPETYPE_EQUAL | Writes if variable is equal to the current value |
| SCE_NP_TUS_OPETYPE_NOT_EQUAL | Writes if variable is not equal to the current value |
| SCE_NP_TUS_OPETYPE_GREATER_THAN | Writes if variable is greater than the current value |
| SCE_NP_TUS_OPETYPE_GREATER_OR EQUAL | Writes if variable is greater than or equal to the |
| | current value |
| SCE_NP_TUS_OPETYPE_LESS_THAN | Writes if variable is less than the current value |
| SCE_NP_TUS_OPETYPE_LESS_OR_EQUAL | Writes if variable is equal to or less than the |
| | current value |

Specify the 64-bit integer for comparison with the existing value in <code>compareValue</code>. If NULL is specified in <code>compareValue</code>, the value specified in <code>variable</code> will be compared with the existing value instead. For <code>variable</code>, specify a 64-bit integer to be used as a value to write to the TUS variable if the specified condition is met.

The TUS variable after the processing will be stored in the area specified with resultVariable, regardless of whether the condition is met or not. (The variable member represents the value after the processing.) Specify sizeof(SceNpTusVariable) for resultVariableSize.

When the value to be written is outside the valid value range set beforehand to the TUS variable, it will be used as is for the comparison, but rounded down to the valid maximum value or rounded up to the valid minimum value for the write.

If a value has not been set to the TUS variable yet, this function will handle processing as though the specified condition has been met. However, an error will occur if the specified user has never accessed the title user storage server, and the function will return

SCE NP COMMUNITY SERVER ERROR USER NOT ASSIGNED.

Also, when the author and time of the last update are specified in <code>isLastChangedAuthor</code> and <code>isLastChangedDate</code>, respectively, these will be checked against the values that have been set on the server, and, if they are different, writing will fail and an error will return. An error will also return if no values have been set on the server (if they have been deleted). This feature was devised to be used in cases where you wish to have only the operations of the first user reflected when multiple users have performed operations in the same slot. If exclusive processing is not necessary, specify NULL.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusTryAndSetVariableAsync(), sceNpTusTryAndSetVariableVUserAsync()



sceNpTusTryAndSetVariableAsync, sceNpTusTryAndSetVariableVUserAsync

Conditionally write a 64-bit integer to a TUS variable (asynchronous)

Definition

```
#include <np.h>
int sceNpTusTryAndSetVariableAsync (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        SceNpTusSlotId slotId,
        SceInt32 opeType,
        SceInt64 variable,
        const SceInt64 *compareValue,
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        SceNpTusVariable *resultVariable,
        SceSize resultVariableSize,
        void *option
);
int sceNpTusTryAndSetVariableVUserAsync
        SceInt32 regId,
        const SceNpTusVirtualUserId
                                      *targetVirtualUserId,
        SceNpTusSlotId slotId,
        SceInt32 opeType,
        SceInt64 variable,
        const SceInt64 *compareValue
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        SceNpTusVariable *resultVariable,
        SceSize resultVariableSize,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotId
opeType
variable
compareValue

isLastChangedAuthor

Request ID (IN)
NI ID of the target user (IN)
ID of the target virtual user (IN)
Target slot ID (IN)
Value representing the write condition (IN)
64-bit integer to write (IN)

64-bit integer to be compared with the value registered on the server. If NULL is specified, the value of <code>variable</code> will be used for comparison Specification of the author of the update for conflict prevention. Processing is only executed when the author of the last update of the TUS variable currently registered on the server is identical with the specified NP ID. Processing is not performed when no TUS variables are registered on the server. Specify NULL if comparison is not necessary

SCE CONFIDENTIAL

Specification of the date and time for conflict prevention.

Processing is only executed when the time of the last update of the TUS variable currently registered on the server is identical with or older than the specified time. Processing is not performed when no TUS variables are registered on the server. Specify NULL if comparison is not necessary (IN)

Pointer to structure for storing the TUS variable information after the processing (OUT)

resultVariableSize Size of the ScenpTusVariable structure (IN)

option Option Always specify NULL

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---|------------|------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not |
| | y | initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ARGUMENT | 0x80550704 | Value other than |
| | | NULL was specified |
| | / | for option |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | ID specified for |
| | | reqId does not exist |
| SCE_NP_COMMUNITY_ERROR_INVALID_TYPE | 0x80550711 | Value not defined |
| | | was specified for |
| | | opeType |
| SCE_NP_COMMUNITY_SERVER_ERROR_USER_NOT_ASSIGNED | 0x8055082b | A storage for the |
| | | specified user has not |
| | | been created yet |

Description

This function writes a 64-bit integer to a TUS variable corresponding to the specified slot of the specified user. Before writing, the function compares the current value and the value to be written, and performs the write if the specified condition is met.

When writing a value to the TUS variable of an actual user, use sceNpTusTryAndSetVariableAsync() and specify the user's NP ID for targetNpId. When writing a value to the TUS variable of a virtual user, use sceNpTusTryAndSetVariableVUserAsync() and specify the virtual user's ID for targetVirtualUserId.

For slotId, specify the slot ID indicating the target TUS variable.

For opeType, specify one of the following values as the condition for performing a write.

| Value | Description |
|-------------------------------------|--|
| SCE_NP_TUS_OPETYPE_EQUAL | Writes if variable is equal to the current value |
| SCE_NP_TUS_OPETYPE_NOT_EQUAL | Writes if variable is not equal to the current value |
| SCE_NP_TUS_OPETYPE_GREATER_THAN | Writes if variable is greater than the current value |
| SCE_NP_TUS_OPETYPE_GREATER_OR_EQUAL | Writes if variable is greater than or equal to the |
| | current value |
| SCE_NP_TUS_OPETYPE_LESS_THAN | Writes if variable is less than the current value |
| SCE_NP_TUS_OPETYPE_LESS_OR_EQUAL | Writes if variable is equal to or less than the |
| | current value |

Specify the 64-bit integer for comparison with the existing value in <code>compareValue</code>. If NULL is specified in <code>compareValue</code>, the value specified in <code>variable</code> will be compared with the existing value instead. For <code>variable</code>, specify a 64-bit integer to be used as a value to write to the TUS variable if the specified condition is met.

The TUS variable after the processing will be stored in the area specified with resultVariable, regardless of whether the condition is met or not. (The variable member represents the value after the processing.) Specify sizeof (SceNpTusVariable) for resultVariableSize.

When the value to be written is outside the valid value range set beforehand to the TUS variable, it will be used as is for the comparison, but rounded down to the valid maximum value or rounded up to the valid minimum value for the write.

If a value has not been set to the TUS variable yet, this function will handle processing as though the specified condition has been met. However, an error will occur if the specified user has never accessed the title user storage server, and the function will return

SCE NP COMMUNITY SERVER ERROR USER NOT ASSIGNED.

Also, when the author and time of the last update are specified in <code>isLastChangedAuthor</code> and <code>isLastChangedDate</code>, respectively, these will be checked against the values that have been set on the server, and, if they are different, writing will fail and an error will return. An error will also return if no values have been set on the server (if they have been deleted). This feature was devised to be used in cases where you wish to have only the operations of the first user reflected when multiple users have performed operations in the same slot. If exclusive processing is not necessary, specify NULL.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained using <code>sceNpTusWaitAsync()</code>, for example. The processing will be performed on an internal thread created by <code>sceNpTusInit()</code>.

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusTryAndSetVariable(),
sceNpTusTryAndSetVariableVUser()

sceNpTusDeleteMultiSlotVariable, sceNpTusDeleteMultiSlotVariableVUser

Delete multiple TUS variables of 1 user (synchronous)

Definition

Arguments

reqId R
targetNpId N
targetVirtualUserId II
slotIdArray R
arrayNum V
option C

Request ID (IN)
NP ID of the target user (IN)
ID of the target virtual user (IN)

Pointer to the array storing the target slot IDs (IN)

Valid number of elements for slotIdArray. Maximum is 64 (IN)

Option for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|-------------------------|------------|---|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified for one of the |
| INVALID_ARGUMENT | | elements of slotIdArray, 0 was specified for |
| | | arrayNum, or value other than NULL was |
| | | specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpId, |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserId, or slotIdArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | - |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550718 | Value exceeding 64 was specified for arrayNum |
| TOO_MANY_SLOTID | | |

©SCEI

| Value | (Number) | Description |
|---|------------|---|
| SCE_NP_COMMUNITY_SERVER_ ERROR_FORBIDDEN | 0x80550806 | Specified slot does not exist, or access privilege has not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ ERROR_INVALID_ANTICHEAT_ DATA | 0x80550819 | Authentication error. Usually occurs with an error in SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ ERROR_NO_SUCH_TITLE | 0x805508a6 | Specified NP Communication ID is not registered on the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ ERROR_TITLE_USER_STORAGE_ BEFORE_SERVICE | 0x805508aa | Title user storage service for the specified NP Communication ID has not started yet (Corresponding message is in the Message Dialog library) |
| SCE_NP_COMMUNITY_SERVER_ ERROR_TITLE_USER_STORAGE_ END_OF_SERVICE | 0x805508ab | Title user storage service for the specified NP Communication ID has already terminated (Corresponding message is in the Message Dialog library) |
| SCE_NP_COMMUNITY_SERVER_ ERROR_TITLE_USER_STORAGE_ MAINTENANCE | 0x805508ac | Title user storage service for the specified NP Communication ID is currently under maintenance (Corresponding message is in the Message Dialog library) |
| SCE_NP_COMMUNITY_SERVER_ ERROR_USER_STORAGE_TITLE_ MASTER_NOT_FOUND | 0x80550848 | Specified NP Communication ID is not registered on the database of the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ ERROR_INVALID_VIRTUAL_ USER | 0x80550849 | Specified virtual user does not exist |

This function deletes multiple TUS variables corresponding to the specified slots of the specified user. The deleted TUS variables will return to a state where values are not set to them.

When deleting the TUS variables of an actual user, use sceNpTusDeleteMultiSlotVariable() and specify the user's NP ID for targetNpId. When deleting the TUS variables of a virtual user, use sceNpTusDeleteMultiSlotVariableVUser() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotIdArray</code>, specify the beginning address of the array storing the slot IDs of the TUS variables to delete. This area must be 4-byte-aligned and continuous. Specify the number of specified slot IDs for <code>arrayNum</code>.

If there is even one slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and delete processing will not take place. If a timeout error occurs, however, the processing result will either be that values are deleted for all the TUS variables or for none of them.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

See Also

```
sceNpTusCreateRequest(),sceNpTusDeleteRequest(),sceNpTusAbortRequest(),
sceNpTusDeleteMultiSlotVariableAsync(),
sceNpTusDeleteMultiSlotVariableVUserAsync(),
SCE_NP_TUS_MAX_SLOT_NUM_PER_REQUEST
```

sceNpTusDeleteMultiSlotVariableAsync, sceNpTusDeleteMultiSlotVariableVUserAsync

Delete multiple TUS variables of 1 user (asynchronous)

Definition

Arguments

reqId Request ID (IN)

targetNpId NP ID of the target user (IN)

targetVirtualUserId ID of the target virtual user (IN)

slotIdArray Pointer to the array storing the target slot IDs (IN)

arrayNum Valid number of elements for slotIdArray. Maximum is 64 (IN)

option Option for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--|------------|---|
| SCE_NP_COMMUNITY_ERROR_ NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_ INVALID_ARGUMENT | 0x80550704 | 0 was specified for arrayNum, or value other than NULL was specified for option |
| SCE_NP_COMMUNITY_ERROR_ INSUFFICIENT_ARGUMENT | 0x8055070c | NULL was specified for targetNpId, targetVirtualUserId, or slotIdArray |
| SCE_NP_COMMUNITY_ERROR_ INVALID_ID | 0x8055070e | ID specified for reqId does not exist |

This function deletes multiple TUS variables corresponding to the specified slots of the specified user. The deleted TUS variables will return to a state where values are not set to them.

When deleting the TUS variables of an actual user, use

sceNpTusDeleteMultiSlotVariableAsync() and specify the user's NP ID for targetNpId. When deleting the TUS variables of a virtual user, use

 ${\tt sceNpTusDeleteMultiSlotVariableVUserAsync()} \ \ and \ specify \ the \ virtual \ user's \ ID \ for \ targetVirtual \ UserId.$

For <code>slotIdArray</code>, specify the beginning address of the array storing the slot IDs of the TUS variables to delete. This area must be 4-byte-aligned and continuous. Specify the number of specified slot IDs for <code>arrayNum</code>.

If there is even one slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and delete processing will not take place. If a timeout error occurs, however, the processing result will either be that values are deleted for all the TUS variables or for none of them.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained using <code>sceNpTusWaitAsync()</code>, for example. The processing will be performed on an internal thread created by <code>sceNpTusInit()</code>.

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusDeleteMultiSlotVariable(),
sceNpTusDeleteMultiSlotVariableVUser(), SCE NP TUS MAX SLOT NUM PER REQUEST





sceNpTusSetData, sceNpTusSetDataVUser

Upload TUS data (synchronous)

Definition

```
#include <np.h>
int sceNpTusSetData (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        SceNpTusSlotId slotId,
        SceSize totalSize,
        SceSize sendSize,
        const void *data,
        const SceNpTusDataInfo *info,
        SceSize infoStructSize,
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        void *option
);
int sceNpTusSetDataVUser (
        SceInt32 regId,
        const SceNpTusVirtualUserId
        SceNpTusSlotId slotId,
        SceSize totalSize,
        SceSize sendSize,
        const void *data,
        const SceNpTusDataInfo
        SceSize infoStructSize,
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        void *option
);
```

Arguments

Request ID (IN) reqId targetNpId NP ID of user who is the update target (IN) targetVirtualUserId ID of virtual user who is the update target (IN) slotId Update target slot ID (IN) totalSize Total size of data to upload (IN) sendSize Size of data to send this time (IN) data Pointer to data to send this time (IN) info Pointer to structure storing accessory information (IN) infoStructSize Size of the accessory information (IN) isLastChangedAuthor Specification of the author of the update for conflict prevention. Processing is only executed when the author of the last update of the TUS data currently registered on the server is identical with the specified NP ID. Processing is not performed when no TUS data is registered on the server. Specify NULL if comparison is not necessary (IN) *isLastChangedDate* Specification of the date and time for conflict prevention. Processing is only executed when the time of the last update of the TUS data currently registered on the server is identical with or older than the specified time. Processing is not performed when no TUS data is registered on the server. Specify NULL if comparison is not necessary (IN) Option for future extension. Always specify NULL option

©SCEI

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---------------------------|-------------|---|
| SCE NP COMMUNITY ERROR | 0x80550702 | Library is not initialized |
| NOT INITIALIZED | | |
| SCE NP COMMUNITY ERROR | 0x80550704 | Value other than NULL was specified for option, |
| INVALID ARGUMENT | | a negative value was specified for <code>slotId</code> , or the |
| _ | | size specified to the <i>infoSize</i> member of the |
| | | info structure is invalid |
| SCE NP COMMUNITY ERROR | 0x80550707 | Communication processing was aborted with |
| ABORTED | 0x80330707 | |
| ABORTED . | | sceNpTusAbortRequest() or |
| SCE NP COMMUNITY ERROR | 00055070- | sceNpTusDeleteRequest() |
| INSUFFICIENT ARGUMENT | 0x8055070c | NULL was specified for targetNpId, |
| INSOFFICIENT_ARGUMENT | | targetVirtualUserId, or data; or 0 was |
| | | specified for totalSize |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | The size specified for infoStructSize is invalid |
| INVALID_ALIGNMENT | 0.00==000.6 | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | | on the title user storage server |
| SCE NP COMMUNITY SERVER | 0x805508aa | Title user storage service for the specified NP |
| ERROR TITLE USER STORAGE | \ X | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ab | Title user storage service for the specified NP |
| ERROR TITLE USER STORAGE | ONOUCCUE | Communication ID has already terminated |
| END OF SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ac | 27 |
| ERROR TITLE USER STORAGE | UXOUSSUOAC | Title user storage service for the specified NP |
| MAINTENANCE | | Communication ID is currently under maintenance |
| THIENTENINGE | | (Corresponding message is in the Message Dialog |
| GOT ND GOINGHAST STATE | 0.0055001 | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x8055081a | The size specified for totalSize exceeds the |
| ERROR_TOO_LARGE_DATA | | maximum size set to the slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x8055082b | A storage for the specified user has not been |
| ERROR_USER_NOT_ASSIGNED | | created yet |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR_USER_STORAGE_TITLE_ | | on the database of the title user storage server |
| MASTER_NOT_FOUND | | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550849 | Specified virtual user does not exist |
| ERROR_INVALID_VIRTUAL_ | | |
| USER | | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550873 | Processing could not be executed because a conflict |
| ERROR_CONDITIONS_NOT_ | | was detected against the specification of |
| SATISFIED | | isLastChangedAuthor and/or |
| | | |

This function uploads TUS data corresponding to the specified slot of the specified user. Data can also be uploaded in installments by calling this function multiple times.

When uploading TUS data of an actual user, use sceNpTusSetData() and specify the user's NP ID for targetNpId. When uploading TUS data of a virtual user, use sceNpTusSetDataVUser() and specify the virtual user's ID for targetVirtualUserId.

For slotId, specify the slot ID of the upload target.

Store the data to upload in the area specified for data, and specify the data size in <code>sendSize</code>. Specify the total size of the data to upload in <code>totalSize</code>.

Accessory information that serves as the TUS index data should be stored in the area specified for <code>info</code>. Specify <code>sizeof(SceNpTusDataInfo)</code> for <code>infoStructSize</code>. Note that a valid data size must be stored to the <code>infoSize</code> member of the <code>info</code> structure. If accessory information is not required, specify NULL for <code>info</code>.

When uploading data in installments, specify the same values for <code>reqId</code>, <code>targetNpId</code> or <code>targetVirtualUserId</code>, and <code>slotId</code> for every function call. Data will be sent for each call according to the values set each time in <code>data</code> and <code>sendSize</code>. However, the value specified for <code>totalSize</code> in the first call will be used, and this argument will be ignored in the subsequent calls. Moreover, because accessory information is sent in the first function call, the values specified for <code>info</code> and <code>infoStructSize</code> in the subsequent calls will be ignored.

Also, when the author and time of the last update are specified in <code>isLastChangedAuthor</code> and <code>isLastChangedDate</code>, respectively, these will be checked against the values that have been set on the server, and, if they are different, writing will fail and an error will return. An error will also return if no values have been set on the server (if they have been deleted). This feature was devised to be used in cases where you wish to have only the operations of the first user reflected when multiple users have performed operations in the same slot. If exclusive processing is not necessary, specify NULL.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After sending all the data and returning from this function, delete the used request ID by calling <code>sceNpTusDeleteRequest()</code>.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusSetDataAsync(), sceNpTusSetDataVUserAsync()

sceNpTusSetDataAsync, sceNpTusSetDataVUserAsync

Upload TUS data (asynchronous)

Definition

```
#include <np.h>
int sceNpTusSetDataAsync (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        SceNpTusSlotId slotId,
        SceSize totalSize,
        SceSize sendSize,
        const void *data,
        const SceNpTusDataInfo *info,
        SceSize infoStructSize,
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick *isLastChangedDate,
        void *option
);
int sceNpTusSetDataVUserAsync (
        SceInt32 regId,
        const SceNpTusVirtualUserId
                                      *targetVirtualUserId,
        SceNpTusSlotId slotId,
        SceSize totalSize,
        SceSize sendSize,
        const void *data,
        const SceNpTusDataInfo
        SceSize infoStructSize,
        const SceNpId *isLastChangedAuthor,
        const SceRtcTick
                          *isLastChangedDate,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotId
totalSize
sendSize
data
info
infoStructSize
isLastChangedAuthor

Request ID (IN)

NP ID of user who is the update target (IN) ID of virtual user who is the update target (IN)

Update target slot ID (IN)
Total size of data to upload (IN)
Size of data to send this time (IN)
Pointer to data to send this time (IN)

Pointer to structure storing accessory information (IN)

Size of the accessory information (IN)

Specification of the author of the update for conflict prevention. Processing is only executed when the author of the last update of the

TUS data currently registered on the server is identical with the specified NP ID. Processing is not performed when no TUS data is registered on

the server. Specify NULL if comparison is not necessary (IN)

Specification of the date and time for conflict prevention.

Processing is only executed when the time of the last update of the TUS data currently registered on the server is identical with or older than the specified time. Processing is not performed when no TUS data is registered on the server. Specify NULL if comparison is not necessary (IN)

option for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---|------------|---------------------------------|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ARGUMENT | 0x80550704 | Value other than NULL was |
| | | specified for option |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | ID specified for reqId does not |
| | | exist |

Description

This function uploads TUS data corresponding to the specified slot of the specified user. Data can also be uploaded in installments by calling this function multiple times.

When uploading TUS data of an actual user, use sceNpTusSetDataAsync() and specify the user's NP ID for targetNpId. When uploading TUS data of a virtual user, use sceNpTusSetDataVUserAsync() and specify the virtual user's ID for targetVirtualUserId.

For slotId, specify the slot ID of the upload target.

Store the data to upload in the area specified for data, and specify the data size in sendSize. Specify the total size of the data to upload in totalSize.

Accessory information that serves as the TUS index data should be stored in the area specified for <code>info</code>. Specify <code>sizeof(SceNpTusDataInfo)</code> for <code>infoStructSize</code>. Note that a valid data size must be stored to the <code>infoSize</code> member of the <code>info</code> structure. If accessory information is not required, specify NULL for <code>info</code>.

When uploading data in installments, specify the same values for <code>reqId</code>, <code>targetNpId</code> or <code>targetVirtualUserId</code>, and <code>slotId</code> for every function call. Data will be sent for each call according to the values set each time in <code>data</code> and <code>sendSize</code>. However, the value specified for <code>totalSize</code> in the first call will be used, and this argument will be ignored in the subsequent calls. Moreover, because accessory information is sent in the first function call, the values specified for <code>info</code> and <code>infoStructSize</code> in the subsequent calls will be ignored.

Also, when the author and time of the last update are specified in <code>isLastChangedAuthor</code> and <code>isLastChangedDate</code>, respectively, these will be checked against the values that have been set on the server, and, if they are different, writing will fail and an error will return. An error will also return if no values have been set on the server (if they have been deleted). This feature was devised to be used in cases where you wish to have only the operations of the first user reflected when multiple users have performed operations in the same slot. If exclusive processing is not necessary, specify NULL.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The actual processing will be performed on an internal thread created by <code>sceNpTusInit()</code>. Note that the area specified for <code>data</code> must be held until the processing completes. The result of the processing must be obtained using <code>sceNpTusWaitAsync()</code>, for example.

After sending all the data and obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

Notes

Until the asynchronous processing completes, another asynchronous processing cannot be issued from the same request ID. Even when using a different request ID, note that there is a possibility of memory running out on the network layer.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusSetData(),
sceNpTusSetDataVUser()



sceNpTusGetData, sceNpTusGetDataVUser

Download TUS data (synchronous)

Definition

```
#include <np.h>
int sceNpTusGetData (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        SceNpTusSlotId slotId,
        SceNpTusDataStatus *dataStatus,
        SceSize dataStatusSize,
        void *data,
        SceSize recvSize,
        void *option
);
int sceNpTusGetDataVUser (
        SceInt32 regId,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        SceNpTusSlotId slotId,
        SceNpTusDataStatus *dataStatus
        SceSize dataStatusSize,
        void *data,
        SceSize recvSize,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotId
dataStatus
dataStatusSize
data
recvSize
option

Request ID (IN)

NP ID of user who is the download source (IN) ID of virtual user who is the download source (IN)

Slot ID of the download source (IN)

Pointer to structure for storing the status of the TUS data (OUT)

Size of the status of the TUS data (IN)

Pointer to area for storing the data to receive this time (OUT)

Size of data to receive this time (IN)

Option for future extension. Always specify NULL

Return Values

Returns the size of the received data (>=0) for normal termination.

| Value | (Number) | Description |
|---------------------------|--------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | Value other than NULL was specified for option, |
| INVALID_ARGUMENT | | or a negative value was specified for slotId |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE NP COMMUNITY ERROR | 0x8055070c | NULL was specified for targetNpId or |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserId |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | The structure size specified for dataStatusSize |
| INVALID_ALIGNMENT | | is invalid |
| SCE NP COMMUNITY SERVER | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE NP COMMUNITY SERVER | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | | on the title user storage server |
| SCE NP COMMUNITY SERVER | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | \ X | library) |
| SCE NP COMMUNITY SERVER | 0x805508ab | Title user storage service for the specified NP |
| ERROR TITLE USER STORAGE | | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | 7 | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x8055082b | A storage for the specified user has not been |
| ERROR USER NOT ASSIGNED | 2.1.00230025 | created yet |
| SCE NP COMMUNITY SERVER | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR USER STORAGE TITLE | 2.100230010 | on the database of the title user storage server |
| MASTER NOT FOUND | | of the dampage of the thic ager brotage between |
| SCE_NP_COMMUNITY SERVER_ | 0x80550849 | Specified virtual user does not exist |
| ERROR_INVALID_VIRTUAL_ | | |
| USER | | |

This function downloads TUS data corresponding to the specified slot of the specified user.

When downloading TUS data of an actual user, use sceNpTusGetData() and specify the user's NP ID for targetNpId. When downloading TUS data of a virtual user, use sceNpTusGetDataVUser() and specify the virtual user's ID for targetVirtualUserId.

For slotId, specify the slot ID of the download source.

Specify a pointer to the structure for storing the status of the TUS data in dataStatus. Specify sizeof (SceNpTusDataStatus) for dataStatusSize.

For data, specify the area for storing the data to receive, and specify its size in recvSize.

The total size of the TUS data will be stored in the <code>dataSize</code> member of the <code>dataStatus</code> structure. If this value is greater than the value specified for <code>recvSize</code>, this means only a part of the data has been received. Call this function again to receive the remaining data. For subsequent calls, the same values should be specified as the first for <code>reqId</code>, <code>targetNpId</code> or <code>targetVirtualUserId</code>, and <code>slotId</code>. Values specified for <code>dataStatus</code>, <code>data</code>, and <code>recvSize</code> can differ. Determine the end of the data from the application side by comparing the total size of the TUS data and the received data size.

When this function is called with NULL specified for data, data will not be received and only the data status will be stored in the dataStatus structure. Thus, this function can be called in this manner for the first call to obtain the total size of the TUS data to receive. A sufficient amount of memory can then be allocated and the entire data received from the second call of this function.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After receiving the entire data and returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

Notes

Functions for obtaining the data status are

sceNpTusGetMultiSlotDataStatus()/sceNpTusGetMultiSlotDataStatusVUser() and sceNpTusGetMultiUserDataStatus()/sceNpTusGetMultiUserDataStatusVUser(). If you want to obtain the data status for reasons other than checking the total data size before downloading, use either of the above functions instead of this one.

The data member of the dataStatus structure exists for reasons of practicality for managing data. You must be careful when receiving a single TUS data in installments, especially, because the address specified first for the data argument of this function (other than NULL) will be returned for each call of the function and this will not indicate the address of the received data.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusGetDataAsync(), sceNpTusGetDataVUserAsync()

sceNpTusGetDataAsync, sceNpTusGetDataVUserAsync

Download TUS data (asynchronous)

Definition

```
#include <np.h>
int sceNpTusGetDataAsync (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        SceNpTusSlotId slotId,
        SceNpTusDataStatus *dataStatus,
        SceSize dataStatusSize,
        void *data,
        SceSize recvSize,
        void *option
);
int sceNpTusGetDataVUserAsync (
        SceInt32 reqId,
        const SceNpTusVirtualUserId
                                              VirtualUserId,
        SceNpTusSlotId slotId,
        SceNpTusDataStatus *dataStatus
        SceSize dataStatusSize,
        void *data,
        SceSize recvSize,
        void *option
);
```

Arguments

reqId Request ID (IN) targetNpId NP ID of user who is the download source (IN) targetVirtualUserId ID of virtual user who is the download source (IN) slotId Slot ID of the download source (IN) Pointer to structure for storing the status of the TUS data (OUT) dataStatus dataStatusSize Size of the status of the TUS data (IN) data Pointer to area for storing the data to receive this time (OUT) recvSize Size of data to receive this time (IN) option Option for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

| Value | (Number) | Description |
|---|------------|--|
| SCE_NP_COMMUNITY_ERROR_NOT_INITIALIZED | 0x80550702 | Library is not initialized |
| SCE_NP_COMMUNITY_ERROR_INVALID_ARGUMENT | 0x80550704 | Value other than NULL was specified for option |
| SCE_NP_COMMUNITY_ERROR_INVALID_ID | 0x8055070e | ID specified for reqId does not exist |

SCE CONFIDENTIAL

This function downloads TUS data corresponding to the specified slot of the specified user.

When downloading TUS data of an actual user, use sceNpTusGetDataAsync() and specify the user's NP ID for targetNpId. When downloading TUS data of a virtual user, use sceNpTusGetDataVUserAsync() and specify the virtual user's ID for targetVirtualUserId.

For slotId, specify the slot ID of the download source.

Specify a pointer to the structure for storing the status of the TUS data in dataStatus. Specify sizeof(SceNpTusDataStatus) for dataStatusSize.

For data, specify the area for storing the data to receive, and specify its size in recvSize.

The total size of the TUS data will be stored in the <code>dataSize</code> member of the <code>dataStatus</code> structure. If this value is greater than the value specified for <code>recvSize</code>, this means only a part of the data has been received. Call this function again to receive the remaining data. For subsequent calls, the same values should be specified as the first for <code>reqId</code>, <code>targetNpId</code> or <code>targetVirtualUserId</code>, and <code>slotId</code>. Values specified for <code>dataStatus</code>, <code>data</code>, and <code>recvSize</code> can differ. Determine the end of the data from the application side by comparing the total size of the TUS data and the received data size.

When this function is called with NULL specified for data, data will not be received and only the data status will be stored in the dataStatus structure. Thus, this function can be called in this manner for the first call to obtain the total size of the TUS data to receive. A sufficient amount of memory can then be allocated and the entire data received from the second call of this function.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The actual processing will be performed on an internal thread created by <code>sceNpTusInit()</code>. Note that the content of the memory specified for <code>data</code> is undefined until the processing completes. The result of the processing must be obtained after confirming that the processing completed using <code>sceNpTusWaitAsync()</code>, for example.

After receiving the entire data and obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

Notes

Until the asynchronous processing completes, another asynchronous processing cannot be issued from the same request ID. Even when using a different request ID, note that there is a possibility of memory running out on the network layer.

Functions for obtaining the data status are sceNpTusGetMultiSlotDataStatusAsync() / sceNpTusGetMultiSlotDataStatusVUserAsync() and sceNpTusGetMultiUserDataStatusAsync() / sceNpTusGetMultiUserDataStatusVUserAsync(). If you want to obtain the data status for reasons other than checking the total data size before downloading, use either of the above functions instead of this one.

The data member of the dataStatus structure exists for reasons of practicality for managing data. You must be careful when receiving a single TUS data in installments, especially, because the address specified first for the data argument of this function (other than NULL) will be returned for each call of the function and this will not indicate the address of the received data.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusGetData(),
sceNpTusGetDataVUser()

©SCEI

sceNpTusGetMultiSlotDataStatus, sceNpTusGetMultiSlotDataStatusVUser

Get multiple TUS data statuses of 1 user (synchronous)

Definition

```
#include <np.h>
int sceNpTusGetMultiSlotDataStatus (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        const SceNpTusSlotId slotIdArray[],
        SceNpTusDataStatus statusArray[],
        SceSize statusArraySize,
        SceInt32 arrayNum,
        void *option
);
int sceNpTusGetMultiSlotDataStatusVUser
        SceInt32 regId,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        const SceNpTusSlotId slotIdArray[],
        SceNpTusDataStatus statusArray[]
        SceSize statusArraySize,
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId
targetNpId
targetVirtualUserId
slotIdArray
statusArray
statusArraySize
arrayNum

option

Request ID (IN)

NP ID of user who is the read source (IN) ID of virtual user who is the read source (IN)

Pointer to the array storing the read source slot IDs (IN)

Pointer to the array for storing the read statuses of the TUS data (OUT)

Memory size of statusArray (IN)

Valid number of elements for slotIdArray. Maximum number is 64

IN)

Option of future extension. Always specify NULL

©SCEI

Return Values

Returns the number of the obtained TUS data statuses (>=0) for normal termination.

| Value | (Number) | Description |
|--|--------------|--|
| SCE NP COMMUNITY ERROR | 0x80550702 | Library is not initialized |
| NOT INITIALIZED | 0.000550702 | Elotary is not initialized |
| SCE NP COMMUNITY ERROR | 0x80550704 | A negative value was specified for one of the |
| INVALID ARGUMENT | 0,000000701 | elements of slotIdArray, 0 was specified for |
| _ | | arrayNum, or value other than NULL was |
| | | specified for option |
| SCE NP COMMUNITY ERROR | 0x80550707 | • |
| ABORTED | 0x80330707 | Communication processing was aborted with |
| MONIED | | sceNpTusAbortRequest() or |
| CCE ND COMMINITES EDDOD | 0. 0055070 - | sceNpTusDeleteRequest() |
| SCE_NP_COMMUNITY_ERROR_ INSUFFICIENT ARGUMENT | 0x8055070c | NULL was specified for targetNpId, |
| _ | | targetVirtualUserId, or statusArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | 0.00550514 | TT 10 10 |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | The structure size specified for statusArraySize |
| INVALID_ALIGNMENT | 0.00====== | is invalid |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550718 | A value exceeding 64 has been specified for |
| TOO_MANY_SLOTID | | arrayNum |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | \ X | on the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | <i>)</i> | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ac | Title user storage service for the specified NP |
| ERROR TITLE USER STORAGE | - Incorposac | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR USER STORAGE TITLE | 0.000000040 | on the database of the title user storage server |
| MASTER NOT FOUND | | of the database of the title user storage server |
| SCE NP COMMUNITY SERVER | 0x80550849 | Specified virtual user does not exist |
| ERROR INVALID VIRTUAL | | Transaction and and and and and and and and and an |
| USER | | |
| ODLIK | ļ | |

This function obtains the statuses of multiple TUS data corresponding to the specified slots of the specified user.

When obtaining the statuses of TUS data of an actual user, use <code>sceNpTusGetMultiSlotDataStatus()</code> and specify the user's NP ID for <code>targetNpId</code>. When obtaining the statuses of TUS data of a virtual user, use <code>sceNpTusGetMultiSlotDataStatusVUser()</code> and specify the virtual user's ID for <code>targetVirtualUserId</code>.

For slotIdArray, specify the beginning address of the array storing the read source slot IDs. This area must be 4-byte-aligned and continuous. Specify the number of specified slot IDs in arrayNum.

For statusArray, specify the beginning address of the array for storing the read statuses. This area must be 8-byte-aligned and continuous. The number of elements as specified in arrayNum is required. Specify arrayNum*sizeof(SceNpTusDataStatus) for statusArraySize.

The TUS data status of the slot specified by <code>slotIdArray[0]</code> will be read and stored in <code>statusArray[0]</code>. The TUS data status of the slot specified by <code>slotIdArray[1]</code> will be read and stored in <code>statusArray[1]</code>. This process is continued so that statuses are read all at once from the number of TUS data as specified in <code>arrayNum</code> and stored in <code>statusArray</code>. If there is even one slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and read processing will not take place. If a timeout error occurs, however, the processing result will either be that the status is read from all TUS data or from none of them.

This function performs synchronous processing In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusGetMultiSlotDataStatusAsync(),
sceNpTusGetMultiSlotDataStatusVUserAsync(),
SCE_NP_TUS_MAX_SLOT_NUM_PER_REQUEST

sceNpTusGetMultiSlotDataStatusAsync, sceNpTusGetMultiSlotDataStatusVUserAsync

Get multiple TUS data statuses of 1 user (asynchronous)

Definition

```
#include <np.h>
int sceNpTusGetMultiSlotDataStatusAsync (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        const SceNpTusSlotId slotIdArray[],
        SceNpTusDataStatus statusArray[],
        SceSize statusArraySize,
        SceInt32 arrayNum,
        void *option
);
int sceNpTusGetMultiSlotDataStatusVUserAsync
        SceInt32 regId,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        const SceNpTusSlotId slotIdArray[],
        SceNpTusDataStatus statusArray[]
        SceSize statusArraySize,
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId Request ID (IN) NP ID of user who is the read source (IN) targetNpId targetVirtualUserId ID of virtual user who is the read source (IN) slotIdArray Pointer to the array storing the read source slot IDs (IN) Pointer to the array for storing the read statuses of the TUS data (OUT) statusArray statusArraySize Memory size of statusArray (IN) arrayNum Valid number of elements for slotIdArray. Maximum number is 64 Option of future extension. Always specify NULL option

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|---|------------|---|
| SCE_NP_COMMUNITY_ERROR_ NOT INITIALIZED | 0x80550702 | Library is not initialized |
| | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | 0 was specified for arrayNum, or value other than |
| INVALID_ARGUMENT | | NULL was specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpId, |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserId, or statusArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID ID | | |

©SCEI

This function obtains the statuses of multiple TUS data corresponding to the specified slots of the specified user.

When obtaining the statuses of TUS data of an actual user, use sceNpTusGetMultiSlotDataStatusAsync() and specify the user's NP ID for targetNpId. When obtaining the statuses of TUS data of a virtual user, use sceNpTusGetMultiSlotDataStatusVUserAsync() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotIdArray</code>, specify the beginning address of the array storing the read source slot IDs. This area must be 4-byte-aligned and continuous. Specify the number of specified slot IDs in <code>arrayNum</code>.

For statusArray, specify the beginning address of the array for storing the read statuses. This area must be 8-byte-aligned and continuous. The number of elements as specified in arrayNum is required. Specify arrayNum*sizeof (SceNpTusDataStatus) for statusArraySize.

The TUS data status of the slot specified by <code>slotIdArray[0]</code> will be read and stored in <code>statusArray[0]</code>. The TUS data status of the slot specified by <code>slotIdArray[1]</code> will be read and stored in <code>statusArray[1]</code>. This process is continued so that statuses are read all at once from the number of TUS data as specified in <code>arrayNum</code> and stored in <code>statusArray</code>. If there is even one slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and read processing will not take place. If a timeout error occurs, however, the processing result will either be that the status is read from all TUS data or from none of them.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The actual processing will be performed on an internal thread created by <code>sceNpTusInit()</code>. The content of the area where the result will be returned is undefined until the processing completes; make sure to obtain the processing result after confirming that the processing completed using <code>sceNpTusWaitAsync()</code>, for example.

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

Notes

Until the asynchronous processing completes, another asynchronous processing cannot be issued from the same request ID. Even when using a different request ID, note that there is a possibility of memory running out on the network layer.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusGetMultiSlotDataStatus(),
sceNpTusGetMultiSlotDataStatusVUser(), SCE NP TUS MAX SLOT NUM PER REQUEST

sceNpTusGetMultiUserDataStatus, sceNpTusGetMultiUserDataStatusVUser

Get 1 TUS data status of multiple users (synchronous)

Definition

```
#include <np.h>
int sceNpTusGetMultiUserDataStatus (
        SceInt32 reqId,
        const SceNpId targetNpIdArray[],
        SceNpTusSlotId slotId,
        SceNpTusDataStatus statusArray[],
        SceSize statusArraySize,
        SceInt32 arrayNum,
        void *option
);
int sceNpTusGetMultiUserDataStatusVUser
        SceInt32 regId,
        const SceNpTusVirtualUserId targetVirtualUserIdArray[],
        SceNpTusSlotId slotId,
        SceNpTusDataStatus statusArray[
        SceSize statusArraySize,
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId
targetNpIdArray

targetVirtualUserIdArray

slotId
statusArray

statusArraySize
arrayNum

option

Request ID (IN)

Pointer to array storing the NP IDs of users who are the read sources (IN)

Pointer to array storing the IDs of virtual users who are the read sources (IN)

Slot ID of the read source (IN)

Pointer to array for storing the read statuses of the TUS data (OUT)

Memory size of statusArray (IN)

Valid number of elements for targetNpIdArray or targetVirtualUserIdArray. Maximum is 101 (IN)

Option for future extension. Always specify NULL

Return Values

Returns the number of the obtained TUS data statuses (>=0) for normal termination.

| Value | (Number) | Description |
|---------------------------|------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | , and the second |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified for <code>slotId</code> , 0 was |
| INVALID_ARGUMENT | | specified for arrayNum, or value other than NULL |
| | | was specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpIdArray, |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserIdArray,or statusArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId/does not exist |
| INVALID_ID | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | Structure size specified for statusArraySize is |
| INVALID_ALIGNMENT | | invalid |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550719 | A value exceeding |
| TOO_MANY_NPID | | SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM has |
| | | been specified for arrayNum |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | | on the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR_USER_STORAGE_TITLE_ | | on the database of the title user storage server |
| MASTER_NOT_FOUND | 0.00====== | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550849 | Specified virtual user does not exist |
| ERROR_INVALID_VIRTUAL_ | | |
| USER | | |

This function obtains the status of TUS data corresponding to the specified slot of the specified users.

When obtaining the TUS data status of actual users, use <code>sceNpTusGetMultiUserDataStatus()</code> and specify the NP ID array for those users in <code>targetNpIdArray</code>. When obtaining the TUS data status of virtual users, use <code>sceNpTusGetMultiUserDataStatusVUser()</code> and specify the array for the virtual user IDs in <code>targetVirtualUserIdArray</code>. These arrays must be 4-byte-aligned continuous areas. Specify the number of users specified in these arrays in <code>arrayNum</code>.

For slotId, specify the slot ID to read out.

For statusArray, specify the beginning address of the array for storing the read statuses. This area must be 8-byte-aligned and continuous. The number of elements as specified in arrayNum is required. Specify arrayNum*sizeof(SceNpTusDataStatus) for statusArraySize.

The TUS data status of the user specified for targetNpIdArray[0] or targetVirtualUserIdArray[0] will be read and stored in statusArray[0]. The TUS data status of the user specified for targetNpIdArray[1] or targetVirtualUserIdArray[1] will be read and stored in statusArray[1]. This process is continued so that statuses are read all at once for the number of TUS data as specified in arrayNum and stored in statusArray.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusGetMultiUserDataStatusAsync(),
sceNpTusGetMultiUserDataStatusVUserAsync(),
SCE_NP_TUS_MAX_USER_NUM_PER_REQUEST



sceNpTusGetMultiUserDataStatusAsync, sceNpTusGetMultiUserDataStatusVUserAsync

Get 1 TUS data status of multiple users (asynchronous)

Definition

```
#include <np.h>
int sceNpTusGetMultiUserDataStatusAsync (
        SceInt32 reqId,
        const SceNpId targetNpIdArray[],
        SceNpTusSlotId slotId,
        SceNpTusDataStatus statusArray[],
        SceSize statusArraySize,
        SceInt32 arrayNum,
        void *option
);
int sceNpTusGetMultiUserDataStatusVUserAsync
        SceInt32 reqId,
        const SceNpTusVirtualUserId targetVirtualUserIdArray[],
        SceNpTusSlotId slotId,
        SceNpTusDataStatus statusArray[
        SceSize statusArraySize,
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId
targetNpIdArray

targetVirtualUserIdArray

slotId
statusArray

statusArraySize
arrayNum

option

Request ID (IN)

Pointer to array storing the NP IDs of users who are the read sources (IN)

Pointer to array storing the IDs of virtual users who are the read sources (IN)

Slot ID of the read source (IN)

Pointer to array for storing the read statuses of the TUS data (OUT)

Memory size of statusArray (IN)

Valid number of elements for targetNpIdArray or targetVirtualUserIdArray. Maximum is 101 (IN) Option for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

| Value | (Number) | Description |
|-------------------------|------------|---|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | 0 was specified for arrayNum, or value other than |
| INVALID_ARGUMENT | | NULL was specified for option |

| Value | (Number) | Description |
|-------------------------|------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpIdArray, |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserIdArray, or statusArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID ID | | |

This function obtains the status of TUS data corresponding to the specified slot of the specified users. When obtaining the TUS data status of actual users, use

sceNpTusGetMultiUserDataStatusAsync() and specify the NP ID array for those users in targetNpIdArray. When obtaining the TUS data status of virtual users, use sceNpTusGetMultiUserDataStatusVUserAsync() and specify the array for the virtual user IDs in targetVirtualUserIdArray. These arrays must be 4-byte-aligned continuous areas. Specify the number of users specified in these arrays in arrayNum.

For slotId, specify the slot ID to read out.

For statusArray, specify the beginning address of the array for storing the read statuses. This area must be 8-byte-aligned and continuous. The number of elements as specified in arrayNum is required. Specify arrayNum*sizeof(SceNpTusDataStatus) for statusArraySize.

The TUS data status of the user specified for targetNpIdArray[0] or targetVirtualUserIdArray[0] will be read and stored in statusArray[0]. The TUS data status of the user specified for targetNpIdArray[1] or targetVirtualUserIdArray[1] will be read and stored in statusArray[1]. This process is continued so that statuses are read all at once for the number of TUS data as specified in arrayNum and stored in statusArray.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The actual processing will be performed on an internal thread created by <code>sceNpTusInit()</code>. The content of the area where the result will be returned is undefined until the processing completes; make sure to obtain the processing result after confirming that the processing completed using <code>sceNpTusWaitAsync()</code>, for example.

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

Notes

Until the asynchronous processing completes, another asynchronous processing cannot be issued from the same request ID. Even when using a different request ID, note that there is a possibility of memory running out on the network layer.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusGetMultiUserDataStatus(),
sceNpTusGetMultiUserDataStatusVUser(), SCE NP TUS MAX USER NUM PER REQUEST

sceNpTusGetFriendsDataStatus

Specify sort conditions and read TUS data statuses for the top user results (up to 100) from among friends (synchronous)

Definition

```
#include <np.h>
int sceNpTusGetFriendsDataStatus (
        SceInt32 reald,
        SceNpTusSlotId slotId,
        SceBool includeSelf,
        SceInt32 sortType,
        SceNpTusDataStatus statusArray[],
        SceSize statusArraySize,
        SceInt32 arrayNum,
        SceNpTusGetFriendsDataStatusOptParam
);
```

Arguments

regId Request ID (IN)

slotId Read source slot ID (IN)

includeSelf Flag to indicate whether the current user's TUS data status is to be included in

the target statuses to obtain or not.

Specify any number besides 0 to include and 0 to exclude (IN)

sortType Friend sort conditions (IN)

Pointer to array for storing the read TUS data statuses (OUT) statusArray

Memory size of statusArray (IN) statusArraySize Number of TUS data statuses to obtain. arrayNum

Up to SCE NP TUS MAX SELECTED FRIENDS NUM (100) (IN)

Pointer to extended option structure. option

Specify NULL if not required



Return Values

Returns the number of the read TUS data statuses (>=0) for normal termination.

| Value | (Number) | Description |
|---------------------------|------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified for slotId, 0 was |
| INVALID_ARGUMENT | | specified for arrayNum, or value other than NULL |
| | | was specified for option |
| SCE NP COMMUNITY ERROR | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE NP COMMUNITY ERROR | 0x8055070c | NULL was specified for statusArray |
| INSUFFICIENT ARGUMENT | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | The structure size specified for statusArraySize |
| INVALID_ALIGNMENT | | is invalid |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550719 | Value exceeding |
| TOO_MANY_NPID | | SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM was |
| | | specified for arrayNum |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege has |
| ERROR_FORBIDDEN | | not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered on |
| ERROR_NO_SUCH_TITLE | \ X | the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE | 7 | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE_NP_COMMUNITY_SERVER | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID is currently under maintenance |
| MAINTENANCE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x80550848 | Specified NP Communication ID is not registered on |
| ERROR_USER_STORAGE_TITLE_ | | the database of the title user storage server |
| MASTER_NOT_FOUND | | |
| | | the database of the title user storage server |

This function specifies a single slot and sort conditions, then reads the TUS data statuses for the top friend results.

For <code>includeSelf</code>, specify any number besides 0 to include the current user in the target TUS data statuses to obtain, and specify 0 to exclude the current user in the target statuses.

For arrayNum, specify the maximum number of users whose TUS data statuses will be obtained in the top results.

For *slotId*, specify the read source slot ID.

For <code>statusArray</code>, specify the beginning address of the array for storing the read TUS data statuses. This area must be 8-byte-aligned and continuous, and its size must be larger than or equal to the value specified for <code>statusArraySize</code>. Specify <code>arrayNum*sizeof(SceNpTusDataStatus)</code> to <code>statusArraySize</code>.

For sortType, specify the friend sort conditions with one of the following values.

| Value | Description |
|--|-----------------------------------|
| SCE_NP_TUS_DATASTATUS_SORTTYPE_DESCENDING_DATE | Sorts by last update date/time in |
| | descending order |
| SCE_NP_TUS_DATASTATUS_SORTTYPE_ASCENDING_DATE | Sorts by last update date/time in |
| | ascending order |

In *statusArray*, the friend TUS data statuses will be stored from the top sort result up to the number specified with *arrayNum*.

The number of stored TUS data statuses will return as the function return value.

If not even one friend TUS data status was registered, the return value will be 0 and normal termination will occur.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusGetFriendsVariable(), sceNpTusGetFriendsVariableAsync(),
sceNpTusGetFriendsDataStatusAsync(), SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM,
SceNpTusGetFriendsDataStatusOptParam

sceNpTusGetFriendsDataStatusAsync

Specify sort conditions and read TUS data statuses for the top user results (up to 100) from among friends (asynchronous)

Definition

Arguments

| reqId | Request ID (IN) |
|-----------------|--|
| slotId | Read source slot ID (IN) |
| includeSelf | Flag to indicate whether the current user's TUS data status is to be included in |
| | the target statuses to obtain or not. |
| | Specify any number besides 0 to include and 0 to exclude (IN) |
| sortType | Friend sort conditions (IN) |
| statusArray | Pointer to array for storing the read TUS data statuses (OUT) |
| statusArraySize | Memory size of statusArray (IN) |
| arrayNum | Number of TUS data statuses to obtain. |
| | Up to SCE NP TUS MAX SELECTED FRIENDS NUM (100) (IN) |
| option | Pointer to extended option structure |
| | Specify NULL if not required |

Return Values

Returns 0 for normal termination.

| Value | (Number) | Description |
|-------------------------|------------|--|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | , and the second |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified for slotId, 0 was |
| INVALID_ARGUMENT | | specified for arrayNum, or value other than NULL |
| | | was specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for statusArray |
| INSUFFICIENT_ARGUMENT | | - |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | - |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550714 | The structure size specified for statusArraySize is |
| INVALID_ALIGNMENT | | invalid |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550719 | Value exceeding |
| TOO_MANY_NPID | | SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM was |
| | | specified for arrayNum |

This function specifies a single slot and sort conditions, then reads the TUS data statuses for the top friend results.

For <code>includeSelf</code>, specify any number besides 0 to include the current user in the target TUS data statuses to obtain, and specify 0 to exclude the current user in the target statuses.

For arrayNum, specify the maximum number of users whose TUS data statuses will be obtained in the top results.

For *slotId*, specify the read source slot ID.

For <code>statusArray</code>, specify the beginning address of the array for storing the read TUS data statuses. This area must be 8-byte-aligned and continuous, and its size must be larger than or equal to the value specified for <code>statusArraySize</code>. Specify <code>arrayNum*sizeof(SceNpTusDataStatus)</code> to <code>statusArraySize</code>.

For *sortType*, specify the friend sort conditions with one of the following values.

| Value | Description |
|--|-----------------------------------|
| SCE_NP_TUS_DATASTATUS_SORTTYPE_DESCENDING_DATE | Sorts by last update date/time in |
| | descending order |
| SCE_NP_TUS_DATASTATUS_SORTTYPE_ASCENDING_DATE | Sorts by last update date/time in |
| | ascending order |

In <code>statusArray</code>, the friend TUS data statuses will be stored from the top sort result up to the number specified with <code>arrayNum</code>.

The number of TUS data statuses stored in statusArray will be stored in result in sceNpTusWaitAsync()/sceNpTusPollAsync().

If not even one friend TUS data status was registered, 0 will be stored in result and normal termination will occur.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained using <code>sceNpTusWaitAsync()</code>, for example. The processing will be performed on an internal thread created by <code>sceNpTusInit()</code>.

After obtaining the result of the processing, call sceNpTusDeleteRequest() to delete the used request ID.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusGetFriendsVariable(),
sceNpTusGetFriendsVariableAsync(), sceNpTusGetFriendsDataStatus(),
SCE NP TUS MAX SELECTED FRIENDS NUM, SceNpTusGetFriendsDataStatusOptParam

sceNpTusDeleteMultiSlotData, sceNpTusDeleteMultiSlotDataVUser

Delete multiple TUS data of 1 user (synchronous)

Definition

Arguments

reqId
targetNpId
targetVirtualUserId
slotIdArray
arrayNum
option

Request ID (IN) NP ID of the target user (IN)

ID of the target virtual user (IN)

Pointer to the array storing the target slot IDs (IN)

Valid number of elements for slotIdArray. Maximum is 64 (IN)

Option for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

Returns a negative value for errors. The main error codes are shown below. (The application must not malfunction even if other error codes are returned.)

| Value | (Number) | Description |
|--|------------|---|
| SCE_NP_COMMUNITY_ERROR_ | 0x80550702 | Library is not initialized |
| NOT_INITIALIZED | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | A negative value was specified for one of the |
| INVALID_ARGUMENT | | elements of slotIdArray, 0 was specified for |
| | | arrayNum, or value other than NULL was |
| | | specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550707 | Communication processing was aborted with |
| ABORTED | | sceNpTusAbortRequest() or |
| | | sceNpTusDeleteRequest() |
| SCE_NP_COMMUNITY_ERROR_ INSUFFICIENT_ARGUMENT | 0x8055070c | NULL was specified for targetNpId, |
| | | targetVirtualUserId, or slotIdArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550718 | Value exceeding 64 was specified for arrayNum |
| TOO_MANY_SLOTID | | |

©SCEI

| Value | (Number) | Description |
|---------------------------|------------|--|
| SCE_NP_COMMUNITY_SERVER_ | 0x80550806 | Specified slot does not exist, or access privilege |
| ERROR_FORBIDDEN | | has not been granted for a slot |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550819 | Authentication error. |
| ERROR_INVALID_ANTICHEAT_ | | Usually occurs with an error in |
| DATA | | SceNpCommunicationPassphrase |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508a6 | Specified NP Communication ID is not registered |
| ERROR_NO_SUCH_TITLE | | on the title user storage server |
| SCE_NP_COMMUNITY_SERVER_ | 0x805508aa | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has not started yet |
| BEFORE_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ab | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID has already terminated |
| END_OF_SERVICE | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x805508ac | Title user storage service for the specified NP |
| ERROR_TITLE_USER_STORAGE_ | | Communication ID is currently under |
| MAINTENANCE | | maintenance |
| | | (Corresponding message is in the Message Dialog |
| | | library) |
| SCE NP COMMUNITY SERVER | 0x80550848 | Specified NP Communication ID is not registered |
| ERROR_USER_STORAGE_TITLE_ | | on the database of the title user storage server |
| MASTER_NOT_FOUND | | |
| SCE_NP_COMMUNITY_SERVER_ | 0x80550849 | Specified virtual user does not exist |
| ERROR_INVALID_VIRTUAL_ | | 7 |
| USER | | |

This function deletes multiple TUS data corresponding to the specified slots of the specified user. The deleted TUS data will return to a state where no data is set to them.

When deleting the TUS data of an actual user, use sceNpTusDeleteMultiSlotData() and specify the user's NP ID for targetNpId. When deleting the TUS data of a virtual user, use sceNpTusDeleteMultiSlotDataVUser() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotIdArray</code>, specify the beginning address of the array storing the slot IDs of the TUS data to delete. This area must be 4-byte-aligned and continuous. Specify the number of specified slot IDs for <code>arrayNum</code>.

If there is even 1 slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and delete processing will not take place. If a timeout error occurs, however, the processing result will either be that data is deleted from all the TUS data or from none of them.

This function performs synchronous processing. In other words, other processes are blocked until communication completes and the result can be obtained. After returning from this function, delete the used request ID by calling sceNpTusDeleteRequest().

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusDeleteMultiSlotDataAsync(), sceNpTusDeleteMultiSlotDataVUserAsync(),
SCE NP TUS MAX SLOT NUM PER REQUEST

sceNpTusDeleteMultiSlotDataAsync, sceNpTusDeleteMultiSlotDataVUserAsync

Delete multiple TUS data of 1 user (asynchronous)

Definition

```
#include <np.h>
int sceNpTusDeleteMultiSlotDataAsync (
        SceInt32 reqId,
        const SceNpId *targetNpId,
        const SceNpTusSlotId slotIdArray[],
        SceInt32 arrayNum,
        void *option
);
int sceNpTusDeleteMultiSlotDataVUserAsync (
        SceInt32 reald,
        const SceNpTusVirtualUserId *targetVirtualUserId,
        const SceNpTusSlotId slotIdArray[]
        SceInt32 arrayNum,
        void *option
);
```

Arguments

reqId Request ID (IN) NP ID of the target user (IN) targetNpId targetVirtualUserId ID of the target virtual user (IN) slotIdArray Pointer to the array storing the target slot IDs (IN)

arrayNum Valid number of elements for slotIdArray. Maximum is 64 (IN)

option Option for future extension. Always specify NULL

Return Values

Returns 0 for normal termination.

| Value | (Number) | Description |
|---|------------|---|
| SCE_NP_COMMUNITY_ERROR_ NOT INITIALIZED | 0x80550702 | Library is not initialized |
| | | |
| SCE_NP_COMMUNITY_ERROR_ | 0x80550704 | 0 was specified for arrayNum, or value other than |
| INVALID_ARGUMENT | | NULL was specified for option |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070c | NULL was specified for targetNpId, |
| INSUFFICIENT_ARGUMENT | | targetVirtualUserId, or slotIdArray |
| SCE_NP_COMMUNITY_ERROR_ | 0x8055070e | ID specified for reqId does not exist |
| INVALID_ID | | |

This function deletes multiple TUS data corresponding to the specified slots of the specified user. The deleted TUS data will return to a state where no data is set to them.

When deleting the TUS data of an actual user, use sceNpTusDeleteMultiSlotDataAsync() and specify the user's NP ID for targetNpId. When deleting the TUS data of a virtual user, use sceNpTusDeleteMultiSlotDataVUserAsync() and specify the virtual user's ID for targetVirtualUserId.

For <code>slotIdArray</code>, specify the beginning address of the array storing the slot IDs of the TUS data to delete. This area must be 4-byte-aligned and continuous. Specify the number of specified slot IDs for <code>arrayNum</code>.

If there is even 1 slot that does not exist, or if there is a slot for which access privilege has not been granted, the function will return an error and delete processing will not take place. If a timeout error occurs, however, the processing result will either be that data is deleted from all the TUS data or from none of them.

This function performs asynchronous processing. In other words, it returns without waiting for the processing to end. The result of the processing must be obtained by using <code>sceNpTusWaitAsync()</code>, for example. The actual processing will be performed on an internal thread created by <code>sceNpTusInit()</code>.

After obtaining the result of the processing, call <code>sceNpTusDeleteRequest()</code> to delete the used request ID.

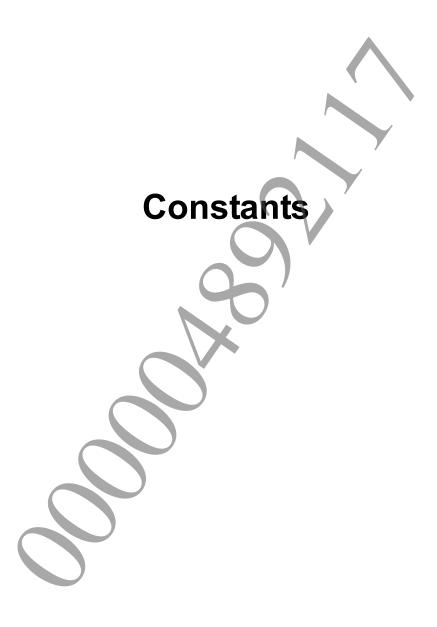
Notes

Until the asynchronous processing completes, another asynchronous processing cannot be issued from the same request ID.

See Also

sceNpTusCreateRequest(), sceNpTusDeleteRequest(), sceNpTusAbortRequest(),
sceNpTusWaitAsync(), sceNpTusPollAsync(), sceNpTusDeleteMultiSlotData(),
sceNpTusDeleteMultiSlotDataVUser(), SCE NP TUS MAX SLOT NUM PER REQUEST





SCE NP TUS DATA_INFO_MAX_SIZE

Maximum size of accessory information for TUS data

Definition

#include <np.h>

#define SCE_NP_TUS_DATA_INFO_MAX_SIZE

384

Description

This constant indicates the maximum number of bytes allowed for accessory information of TUS data.

See Also

SceNpTusDataInfo



SCE_NP_TUS_MAX_CTX_NUM

Maximum number of contexts

Definition

#include <np.h>
#define SCE NP_TUS_MAX_CTX_NUM (32)

Description

This constant indicates the maximum number of contexts that can exist at one time in the NP TUS library.

This number is both the maximum for title contexts and the maximum for request IDs.

See Also

sceNpTusCreateTitleCtx(), sceNpTusCreateRequest()



SCE_NP_TUS_MAX_SLOT_NUM_PER_REQUEST

Maximum number of slots that can be targeted at one time

Definition

#include <np.h>

#define SCE_NP_TUS_MAX_SLOT_NUM_PER_REQUEST (64)

Description

This constant indicates the maximum number of slot IDs that can be specified at one time in a communication processing that targets multiple slots.



SCE_NP_TUS_MAX_USER_NUM_PER_REQUEST

Maximum number of users that can be targeted at one time

Definition

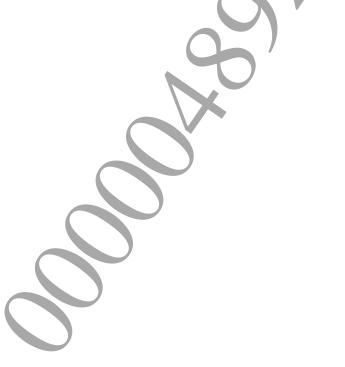
#include <np.h>

#define SCE_NP_TUS_MAX_USER_NUM_PER_REQUEST (101)

Description

This constant indicates the maximum number of users that can be specified at one time in a communication processing that targets multiple users.

SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM is provided separately for communication processing that targets friends.



SCE_NP_TUS_MAX_SELECTED_FRIENDS_NUM

Maximum number of users that can be obtained with communication processing that targets friends

Definition

```
#include <np.h>
#define SCE NP TUS MAX SELECTED FRIENDS NUM (100)
```

Description

This constant indicates the maximum number of users that can be specified in communication processing that targets friends.

In order to not depend on changes in the maximum number of friends, it is possible to obtain the TUS variables and TUS data statuses for the users in the top 100 sort results regardless of the total number of friends.

See Also

sceNpTusGetFriendsVariable(), sceNpTusGetFriendsVariableAsync(),
sceNpTusGetFriendsDataStatus(), sceNpTusGetFriendsDataStatusAsync()