Linux SDK for UPnP Devices v1.4

Contents

1 Introduction

This document gives a brief description of the Linux SDK for UPnP Devices API. Section 1 covers the license under which the SDK is distributed. Section 2 talks about the callback functions used in many parts of the API. Finally, section 3 details the structures and functions that comprise the API.

The Linux SDK for UPnP Devices version 1.2 supports the following platforms:

- Linux* running on an Intel Architecture processor
- Linux running on an Intel StrongARM or XScale processor

* Other brands and names are the property of their respective owners.

4.1.13

UPNP_E_

4.1.23

The Up

A UpnpSendActionAsync *call completed.*

Received by a device when a control point issues a control request.

Received by a device when a control point issues a control request. The

4.2.3.6

UPNP_

4.2.3.14

UPNP_EVENT_AUTORENEWAL_FAILED

The auto-renewal of a client subscription failed.

4.2.5.4

UPNP_S_SERVICE

4.2.7.10

IXML_Document* SoapHeader

The DOM document containing the information from the the SOAP header.

The DOM document containing the information from the the SOAP header.

4.2.8

struct Upnp_State_

4.2.8.2

4.2.10.1

4.2.11.4

4.2.14

struct UpnpVirtualDirCallbacks

The UpnpVirtualDirCallbacks *structure contains the pointers to file-related callback functions a device application can register to virtualize URLs.*

Members

4.2.14.1 int (*get_info) (IN const char* filename,
OUT struct File_

4.3.5

EXPORT_

4.3.7

Return Value:

Parameters:

`descriptionType` The type of the description document.

`description` Treated as a URL, file name or memory buffer depending on description type.

`bufferLen` The length of memory buffer if passing a description in a buffer, otherwise it is ignored.

`config_baseURL` If nonzero, `URLBase` of description document is configured and the description is served using the internal web server.

`Fun` Pointer to the callback function for receiving

Parameters: `contentLength` The maximum permissible content length for incoming SOAP actions, in bytes.

4.4

UpnpSendActionExAsync

Return Value: `[int]` An integer representing one of the following:

- `UPNP_E_SUCCESS`

Return Value: `[int]` An integer representing one of the following:

- `UPNP_E_SUCCESS`: The operation completed

Return Value:	`[int]`	An integer representing one of the following: • `UPNP`

4.5.6

EXPORT_SPEC int **UpnpSendActionExAsync** (IN UpnpClient_

UpnpAcceptSubscription *accepts a subscription request and sends out the current state of the eventable variables for a service.*

UpnpAcceptSubscription accepts a subscription request and sends out the current state of the eventable variables for a service. The device application should call this function when it receives a `UPNP_EVENT_SUBSCRIPTION_REQUEST` a DOM document for the variables to event rather than an array of strings. This function is sychronous and generates no callbacks.

Return Value: `[int]`

Return Value: `[int]` An integer representing one of the following:

- `UPNP`

UpnpRenewSubscriptionAsync renews a subscription that is about to expire, generating a callback when the operation is complete.

Note that many of the error codes for this function are returned in the **Upnp_Event_Subscribe** structure. In those cases, the function returns UPNP_E_SUCCESS and the appropriate error code will be in the **Upnp_Event_Subscribe.ErrCode** field in the **Event** structure passed to the callback.

Parameters:	`Hnd`	The handle of the control point that is renewing

Return Value: [int] An integer representing one of the following:

-

Return Value: [int] An integer representing one of the following:

- UPNP_

UpnpCloseHttpPost

UpnpOpenHttpGetProxy

4.7.4

EXPORT_

Parameters:

`url` The URL in which to send the POST request.

`handle` A pointer in which to store the handle for this

Return Value: [int] An integer representing one of the following:

- UPNP_E_SUCCESS: The operation completed successfully.
- UPNP_E_INVALID_PARAM: RelURL is NULL.
- UPNP_E_INVALID_URL: The BaseURL / RelURL combination does not form a valid URL.
- UPNP_E_OUTOF_MEMORY: Insufficient resources exist to complete this operation.