

usb-control

0.1

Generated by Doxygen 1.6.3

Sun Jan 27 17:03:32 2013



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# Chapter 1

## Data Structure Index

### 1.1 Data Structures

Here are the data structures with brief descriptions:

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# Chapter 2

## File Index

### 2.1 File List

Here is a list of all documented files with brief descriptions:

<a href="#">/media/4ec1cddc-24fd-4aaa-a1b9-43731b032863/home/editablez/workspace/usb/src/common/common.h</a>	
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## Chapter 3

# Data Structure Documentation

### 3.1 \_\_request Struct Reference

#### Data Fields

- gchar \* [user](#)  
*User which connected the device.*
- const gchar \* [serial](#)  
*Serial of the device.*
- const gchar \* [devtype](#)  
*device's devtype*
- gboolean [authorized](#)  
*either is authorized or no.*
- gchar \* [date](#)  
*current date of the system.*

The documentation for this struct was generated from the following file:

- </media/4ec1cddc-24fd-4aaa-a1b9-43731b032863/home/editablez/workspace/usb/src/common/common.h>



## Chapter 4

# File Documentation

### 4.1 /media/4ec1cddc-24fd-4aaa-a1b9-43731b032863/home/editablez/workspace/us File Reference

```
#include <unistd.h>
#include <glib.h>
#include <glib/gprintf.h>
#include <time.h>
#include <utmp.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <syslog.h>
#include <sys/types.h>
#include <err.h>
#include <locale.h>
```

#### Data Structures

- struct [\\_\\_request](#)

#### Defines

- #define [DB](#) "/etc/usb-control/database.db"  
*Place where are the database.*
- #define [LOG](#) "/var/log/usb-control.log"  
*Place where are the application's logs.*
- #define [NO\\_AUTORIZADO](#) "No autorizado"

*Default identifier for connected device new to system.*

- #define `ENV_SERIAL` "ID\_SERIAL\_SHORT"  
*Serial number short imported from udev environment.*
- #define `ENV_DEVTYPE` "DEVTYPE"  
*Devtype imported from udev environment.*
- #define `LOCK` "/tmp/usbsecurity.lock"  
*This file avoid instances multiple of this application.*

## Typedefs

- typedef struct `__request` `request`

## Functions

- void `register_log` ()  
*Add a entry to log file.*
- gchar \* `get_date` ()  
*Get a date in gchar \* form.*
- gchar \* `getuser` ()  
*Get the current user in the system.*
- const gchar \* `getmsg` ()  
*Name of action.*

## Variables

- `request` info

### 4.1.1 Detailed Description

#### Author

Edilberto Blez D.

### 4.1.2 Function Documentation

#### 4.1.2.1 gchar\* get\_date ()

Get a date in gchar \* form.

This function is used to retrieve the date from the system.

gchar \* with the current date.

#### 4.1.2.2 const gchar\* getmsg ()

Name of action.

Get a name of the action according with the value of info.authorized.

##### Returns

a gchar \* associate.

#### 4.1.2.3 gchar\* getuser ()

Get the current user in the system.

Tries to get the user that is current connected to system. As can be connectar more than one user, the application tries to get one if this can, otherwise unknown is returned.

##### Returns

One current user o unknown if can't.

#### 4.1.2.4 void register\_log ()

Add a entry to log file.

Depend of a action this function add a new entry to a log file.

##### Parameters

*info* contain the all necessary information about the action.

## 4.2 usb-control.h File Reference

```
#include "../common/common.h"
```

### Functions

- int [fail](#) (char \*dev)  
*shut down the interface of the partition's device.*
- gboolean [init\\_values](#) ()  
*init the values in this file.*
- int [is\\_authorized](#) ()  
*Check if the current device is authorized.*
- void [register\\_a\\_new\\_device](#) ()  
*Put a new connected device in database.*

### 4.2.1 Detailed Description

#### Author

Edilberto Blez D.

### 4.2.2 Function Documentation

#### 4.2.2.1 int fail (char \* dev)

shut down the interface of the partition's device.

If this function is called that is because the device isn't authorized and it must be shut down.

#### Parameters

*dev* is a name of the device node.

#### Returns

a value non-zero

#### 4.2.2.2 gboolean init\_values ()

init the values in this file.

This is one of the primary functions that is called to connect a device.

#### Returns

either TRUE if all could be done or FALSE otherwise.

#### 4.2.2.3 int is\_authorized ()

Check if the current device is authorized.

This function retrieves information about the device. If the device has never been put in the system it get value 0. if has been put but its identify is "No Autorizado" it get value 2. if has been authorized it get value 1.

##### Returns

either 1 if is authorized or (0 or 2) otherwise.

#### 4.2.2.4 void register\_a\_new\_device ()

Put a new connected device in database.

When you connect for first time a device it is added to the database with the "No Autorizado" identify.

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