

CompeGPS API

COMPE GPS

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1 Introduction

1.1 About the Manual

This manual is destined to all CompeGPS users that want to use the CompeGPS API (Application Programming Interface). It try to explain how to use the API and it mention a set of communication specifications between external applications and CompeGPS

1.2 About CompeGPS API

One of the main intentions of the CompeGPS API consists in providing a set of general use functions to all the users that are interested in.

2 DLL Functions

2.1 List of functions

This is a list of functions that we can use with CompeGPS API.

```

int _export CompeGPSPort_Version ();
int _export CompeGPSPort_Init ();
int _export CompeGPSPort_MovingMapInit ();
int _export CompeGPSPort_OpenFile(const char *filename);
int _export CompeGPSPort_NewPoint(double x,double y,double z, const char *id,
    const char *comment);
int _export CompeGPSPort_ExecCommand (int idcommand)
int export_itv CompeGPSPort_SetViewportLen (int lenx,int leny);
int export_itv CompeGPSPort_CenterWaypoint (const char* ID, double escala);
int export_itv CompeGPSPort_ExportViewFile (const char* imagefilename);

```

The listed functions can return the next values: (Except CompeGPSPort_Version)

```

#define COMPEGSPORT_OK 0
#define COMPEGSPORT_EXENOTFOUND 1
#define COMPEGSPORT_ERRORMSG 2
#define COMPEGSPORT_NOTIMPLEMENTED 3

```

A short explanation about how to use each function and how works the function.

- int _export CompeGPSPort_Version ();

Returns the actual version of CompeGPSPORT.DLL

- int _export CompeGPSPort_Init ();

Verifies that CompeGPS is loaded in the system. If it is not, it returns COMPEGSPORT_EXENOTFOUND.

- int _export CompeGPSPort_MovingMapInit ();

Starts the MovingMap in CompeGPS.

This moving map will not work with the SERIAL COM port.

It will work only with the positions sent to CompeGPSPORT.DLL with the CompeGPSPort_NewPoint function.

- `int _export CompeGPSPort_OpenFile(const char *filename);`

This function still does not work. In version 1, returns

- `int _export CompeGPSPort_NewPoint(double x,double y,double z, const char *id,const char *comment);`

Introduces a new 'moving map' point to CompeGPS.

x longitud of the new point.

y latitude

z altitude

id identification string of the mobile

comment some comment about the mobile. It will be displayed near the mobile.

- `int export_itv CompeGPSPort_SetViewportLen (int lenx,int leny);`

Modifies the size of the CompeGPS Window, changing the map view size to x, y pixels.

- `int export_itv CompeGPSPort_CenterWaypoint (const char* ID, double escala);`

Centers the waypoint ID in the screen, and modifies the scale. The scale units are meters/pixel.

- `int export_itv CompeGPSPort_ExportViewFile (const char* imagefilename);`

Saves the Actual map view to a file.

- `int _export CompeGPSPort_ExecCommand (int idcommand)`

Executes one command in CompeGPS.

This is a reduced list of commands:

Command_Vistas_Aumenta_Zoom	= 101,
Command_Vistas_3D	= 112,
Command_Mapas_Abrir	= 301,
Command_Waypoints_Save	= 406,
Command_Archivo_Opciones	= 501,
Command_Vuelos_GraficalInferior	= 703,
Command_Rutas_Crear	= 803

If you want the complete list or some particular command send an email to support@compegps.com and we help you as soon as possible.