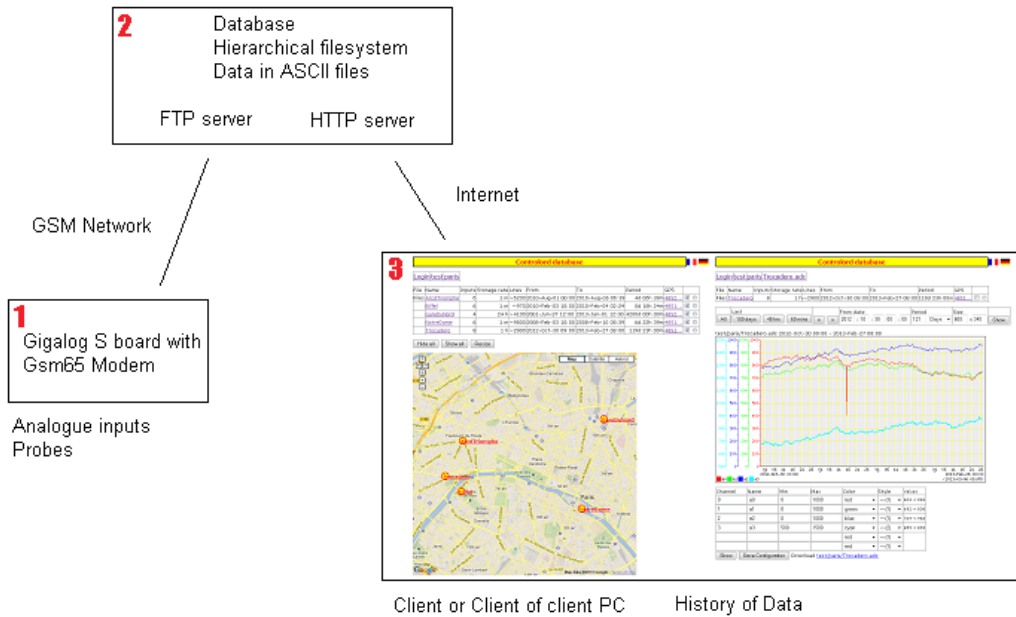


Controlord Internet customer database

Overview

The database keeps data gathered from GigaLog data loggers and send to it by FTP.
The user interface allows to display this data of the database graphically.
It is intended for several clients, each client using only his own data.
This database can be implemented on an Internet HTML server.
It needs PHP 5.0 or later. The data is kept in ASCII files, and unchanged from the original data on the memory card of the GigaLog data logger.
The database does not use MySQL.
You can visit an implementation at <http://www.controlord.fr/db24>



1
The Gigalog S board send regularly its data by ftp to the database.
The board may also send information about the board, like the GPS position.

2
The database reserves one directory for each client.
The client may organise the data in subdirectories.

3
The client, and his clients may login to the database from anywhere in the world by Internet.
The data is available as history diagrams, or for download for further treatment.

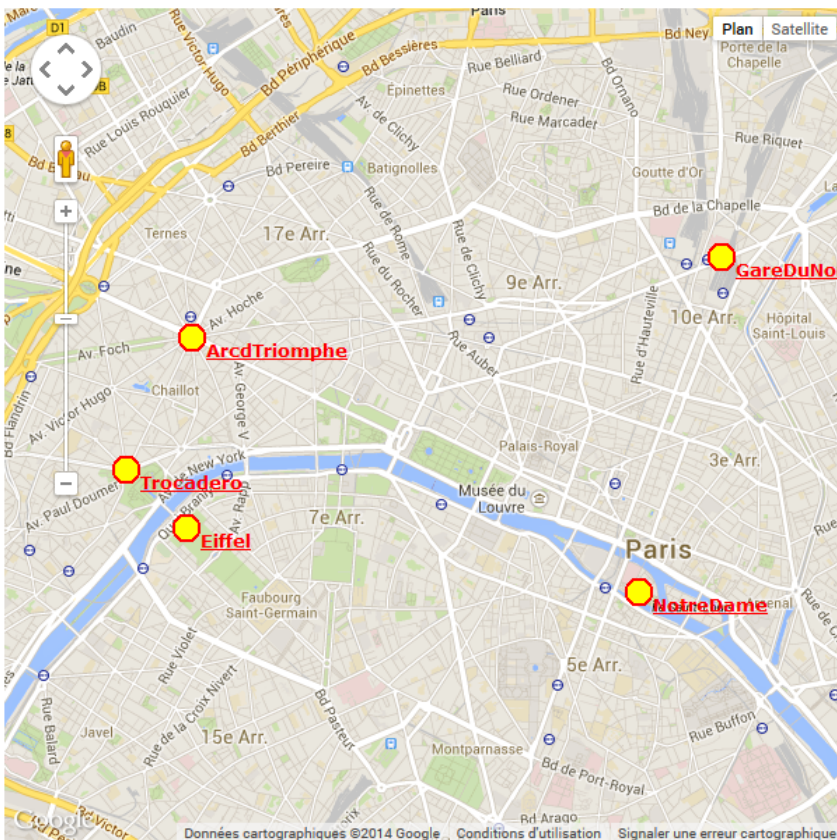
For the configuration of the Gigalog S firmware: see Gigalog S manual: Remote Control: Quick guide: How to send your data by GSM65 to the Controlord Internet server

User Interface Directory

Controlord database 🇫🇷 🇩🇪

[Login](#) [demo](#) [paris](#)

File	Name	Inputs	Storage rate	Lines	From	To	Period	GPS	
Files	ArcdTriomphe	6	1 m	~6200	2010-Aug-01 00:00	2010-Aug-05 06:39	4d 06h 39m	4852...	<input checked="" type="checkbox"/> <input type="checkbox"/>
	Eiffel	6	1 m	~970	2010-Feb-03 10:00	2010-Feb-04 02:24	0d 16h 24m	4851...	<input checked="" type="checkbox"/> <input type="checkbox"/>
	GareDuNord	4	24 h	~4100	2001-Jun-27 12:00	2013-Jan-01 12:00	4206d 00h 00m	4852...	<input checked="" type="checkbox"/> <input type="checkbox"/>
	NotreDame	6	1 m	~9800	2008-Feb-03 10:00	2008-Feb-10 08:39	6d 22h 39m	4851...	<input checked="" type="checkbox"/> <input type="checkbox"/>
	Trocadero	8	1 h	~2900	2012-Oct-30 09:00	2013-Feb-27 08:00	119d 23h 00m	4851...	<input checked="" type="checkbox"/> <input type="checkbox"/>



The program starts by calling db24.php.
 You have to login first.
 You will then be directed to your client directory.
 On each directory you can choose to open another subdirectory, or display data from the database.
 You can also go back to any level.

Data

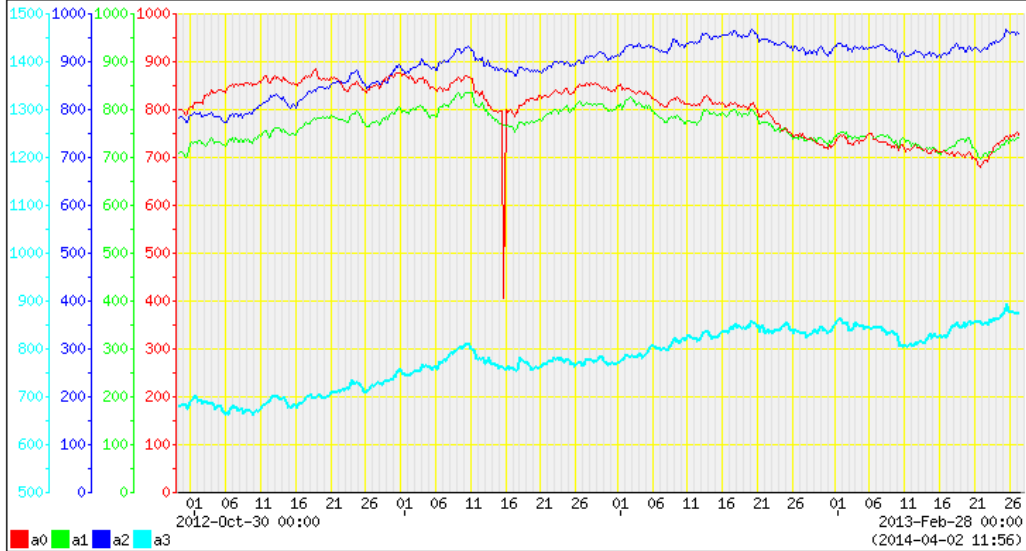
Controlord database

Login [test](#) [paris](#) [Trocadero.adc](#)

File	Name	Inputs	Storage rate	Lines	From	To	Period	GPS
Files	Trocadero	8	1 h	~2900	2012-Oct-30 09:00	2013-Feb-27 08:00	119d 23h 00m	4851...

Last		From date		Period		Size		Show	
All	100 days	48 hrs	60 mins	<	>	2012 : 10 : 30 00 : 00	121 Days	600 x 340	Show

paris/Trocadero.adc 2012-Oct-30 09:00 - 2013-Feb-27 08:00



Channel	Name	Min	Max	Color	Style	Values
0	a0	0	1000	red	--- (1)	404 < 884
1	a1	0	1000	green	--- (1)	692 < 838
2	a2	0	1000	blue	--- (1)	769 < 968
3	a3	500	1500	cyan	--- (2)	659 < 893
				red	--- (1)	
				red	--- (1)	

Show Save Configuration PDF Download [paris/Trocadero.adc](#)

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You can display the complete file, the last 100 days, last 48 hours, or last 60 minutes of the data.
 You can also choose any other period.
 You can choose the size of the image to display.

The x-axis is grey with black points, where there is data.
 A grey x-axis with some black points indicate little data in the period, a black x-axis indicate lots of data.

Data will be written to the image from the channel in the last line in the configuration up to the first line.
 Thus the channels of the first lines are in the foreground.

Configuration

The configuration of the image is displayed under the image.

It includes for each line

- the channel (number of the column in the data file),
- its name,
- its mapping on the y-axis by minimum, and maximum values,
- its appearance, colour, style, width

An additional column in the table displays minimum and maximum values of the function found in the data, to help you, to find good values for the mapping.

You may change the configuration and try a new image with the new configuration.

You may save the configuration under the same, or under another name.

To save a configuration, you need administration rights.

There can be several configurations for one data file.

This is especially useful for data files with lots of inputs. In this case, each configuration only displays some of these inputs.

The program proposes all configurations in the directory.

If there is a datafile without any configuration, it will propose a default minimum configuration for the file.

Output to PDF file

You may save the data images to a PDF file.

From the directory level, this can give you a complete report, including a table of contents, data pages for several files and configurations, and a GPS page.

From the data level, this interface looks a bit different.

Controlord database

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Table of contents

Select period and page layout :

<input checked="" type="radio"/> All <input type="radio"/> Period	From date 2012 : 05 : 03 00 : 00	Period 301 Days ▾
<input checked="" type="radio"/> Fit to single page <input type="radio"/> Pages	Period / page 301 Days ▾	Cut page at 1 Days ▾
<input checked="" type="radio"/> Portrait <input type="radio"/> Landscape	Size 750 x 500	

Select Data Files / Configurations :

	Storage rate	Lines	From	To
<input checked="" type="checkbox"/> Prado.adc <input type="checkbox"/> PradoPoints <input type="checkbox"/> PradoThick	1 h	~7100	2012-May-03 18:00	2013-Feb-27 16:00
<input checked="" type="checkbox"/> VieuxPort.adc	1 m	~2900	2013-Feb-25 18:02	2013-Feb-27 18:01

GPS planZoom: Apparence:

Document: Files: Pages:

Select period:

Choosing All will choose the period individually for each data file from its data.

Choosing a period will use this period for all data files.

The proposed period covers all selected data files, and may be very long.

Note, that this may produce long periods without data in some images.

Select period per page:

Choosing All puts all data into one image.

Selecting a period per page cuts the data into several images on several pages.

Example: Data starts at 18pm one day, continues next day, and ends at 6am two days later.

Period / Page = 24h, Cut pages at 1 h, gives two images of 24h, the first starting at 18pm.

Period / Page = 24h, Cut pages at 24 h, gives three images, each from 0h to 24h.

Portrait, Landscape, Size

Selecting portrait, and Landscape selects the orientation of the image on the page.

Reducing the size reduces the size of the image on the page.

Increasing the size increases the resolution.

The image will always be compressed to fit on a single page, keeping the ratio of width and height.

Compression will reduce the size of the characters and the width of the lines.

Select files and configuration.

Document Files: Pages:

This line indicates the estimated amount of the document before starting the output.

Beware of too many pages. The server may time out.

Click on PDF to start the output.

Administration

On each level, when displaying a directory, on clicking the Administration button, you can switch to the administration mode.

You can only enter this mode, when you have Administration rights. The main login always has administration rights

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Administration

File	Name	
Directories:	Frioul	<input type="button" value="Remove"/> Warning: Directory is not empty
Files:	Prado.adc	<input type="button" value="Remove"/>
	Prado.txt	<input type="button" value="Remove"/>
	VieuxPort.adc	<input type="button" value="Remove"/>
	VieuxPort.txt	<input type="button" value="Remove"/>
	_conf.txt	<input type="button" value="Remove"/>
	_summary.txt	<input type="button" value="Remove"/>
	<input type="text"/>	<input type="button" value="Create directory"/>
	<input type="text"/> <input type="button" value="Browse..."/>	<input type="button" value="Upload file"/>

Restricted logins (limited to 5)

Login	Password	Subdirectory	Administration rights	
demo	demo		<input type="checkbox"/>	<input type="button" value="Remove"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="button" value="Create Login"/>

You may remove files, and directories.

Attention, when a directory is not empty, you will loose all files and subdirectories in it.

You may create a new directory.

You may upload a file.

When you have logged in with the main login, you can add and remove restricted logins.

This login can be limited to a sub tree of your database.

This login may, or may not have administration rights.

Internals

This chapter is needed, to built your own data base from a copy of the db24 data base source files

Structure

Db24 uses two directories on an Internet server: a program directory, and a database directory

Files in the program directory

db24*	program to display data
db24conf.php	configuration information
db24maintenance.php	maintenance program
password.txt	password file
login.log	logfile login
tmp	directory for temporary images

db24conf.php

This file includes information, where to find the database files, etc.
You have to change this file.

Password.txt

Each line

<login>,<password>,<directory>,<administration rights>

The directory indicates a subdirectory in the base directory.

Administration rights of 1 allow the user to save the configuration of an image.

Use a text editor to add or update lines in the file.

Login.log

Keeps a log of all logins into the base: login name, remote IP.

Maintenance.php

This program is needed for the following reasons:

1. Gigalog sends data regularly to the database by FTP, for instance daily.

Gigalog can not append files on the server.

Gigalog will transfer the data in chunks to the directory, like

mydata.adc

mydata_20100501.adc

mydata_20100502.adc

The maintenance program will append mydata_*.adc to mydata.adc and remove mydata_*.adc from the disk.

The program will treat all regular files, having a "_" in the file name.

2. Gigalog can not create directories on the Internet server.

The data logger program may want to distribute the data into new directories.

To do so, and if the subdirectory does not yet exist, GigaLog uses by convention "%" in the file name, for example:

abc%def.adc

The maintenance program will create a subdirectory abc, if it does not yet exist, and move abc%def.adc to abc/def.adc.

This procedure will be done on all subdirectories, the file name may include several %.

3.

Create in each directory a file `_summary.txt`, which keeps information about all files and directories.

4.

The software stores images in the "tmp" directory. The maintenance program shall clean this directory from time to time.

If you have the job-scheduler cron available on the Internet server, you may use it to execute the maintenance regularly, like every day, for the complete data base:

```
include ("maintenance.php");
maintenanceDaily();
```

In the distributed version, `db24.php` calls the maintenance after each login for the subdirectory of the client.

Files in the database directory

Each client has his own subdirectory in the base directory.

Each subdirectory may keep other subdirectories and or data files.

The Gigalog data logger transfers data directly into one of these directories.

Each subdirectory shall keep a configuration file "`_conf.txt`".

If this file does not yet exist, it will be created, when saving the first configuration in the directory.

Data directories

Each directory in the client directory tree, may include

- other directories
- data files like `myfile.adc`
- information files like `myfile.txt`
- configuration file `_conf.txt`
- information summary `_summary.txt`

Gigalog uses the `gopen` command to send its information to the directory, including its GPS position.

The board uses then the `gput` command to send a data file.

`_conf.txt`

This file will be created and changed when clicking on "Save configuration"

The file contains the configuration of images.

Each configuration is stored in a section, that is identified by its name.

It is followed by the name of the data file.

And several lines of data to display in the image.

For example:

```
[myconf]
file=mydata.adc
0,speed (km/h),-1000,1000,0,0
1,sidewind,-1000,1000,1,0
2,a2,0,10000,2,0
```

`_summary.txt`

File created by the maintenance program. Includes information about all files and sub directories.