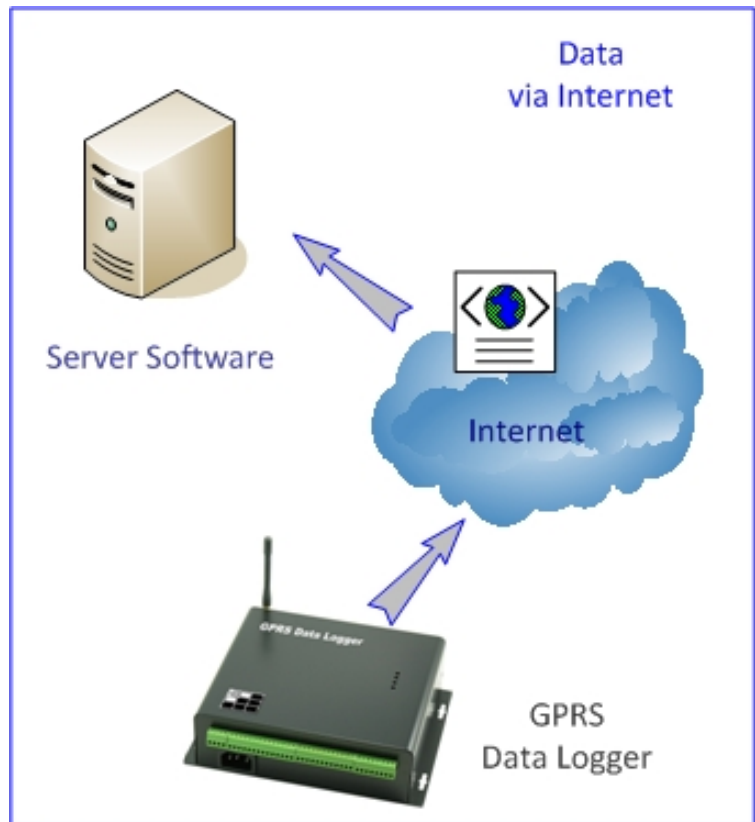# Dynamic Domain Name

Operation Guide

How it works with 3GTrack Data Logger?

ⓘ This manual is not necessary when static (fixed) IP is used in Server.

Contents

1. How to get data from GPRS Data Logger?

Data can be live and historical.

There are 4 different modes of getting data from GPRS Data Logger.

- "GS828_Centre" is the Standard version of server software.
- "GS828_Server" is the Premium version of server software.

This manual is mainly describing the use of "GS828_Centre" software in getting live data via Internet.
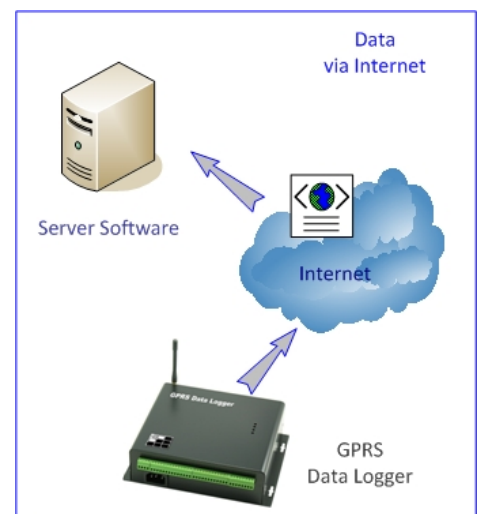
By Internet:

- Both "GS828_Centre" & "GS828_Server" software support receiving the data from GPRS Data Loggers via Internet.
- "GS828_Centre" software will save data in text file.
- "GS828_Server" software will save data in XML and other Database files.

This method is the most common way of receiving and managing the data.

However, there are two data communication protocols:

1) UDP
2) TCP

2. How does the Data Logger find the location of server?

- Server is assigned with public fixed IP address [or static IP]
- Server points to the dynamic domain name

This manual describes the installation and operation of using dynamic domain name.

3. Before Installation

Hardware Requirements:

Server PC:

- Intel Core2 Duo CPU E6550 or above
- 2GB RAM, 100GB hard disk
- Windows XP Professional/Vista Premium/7
- Min. 1024 x 768 display
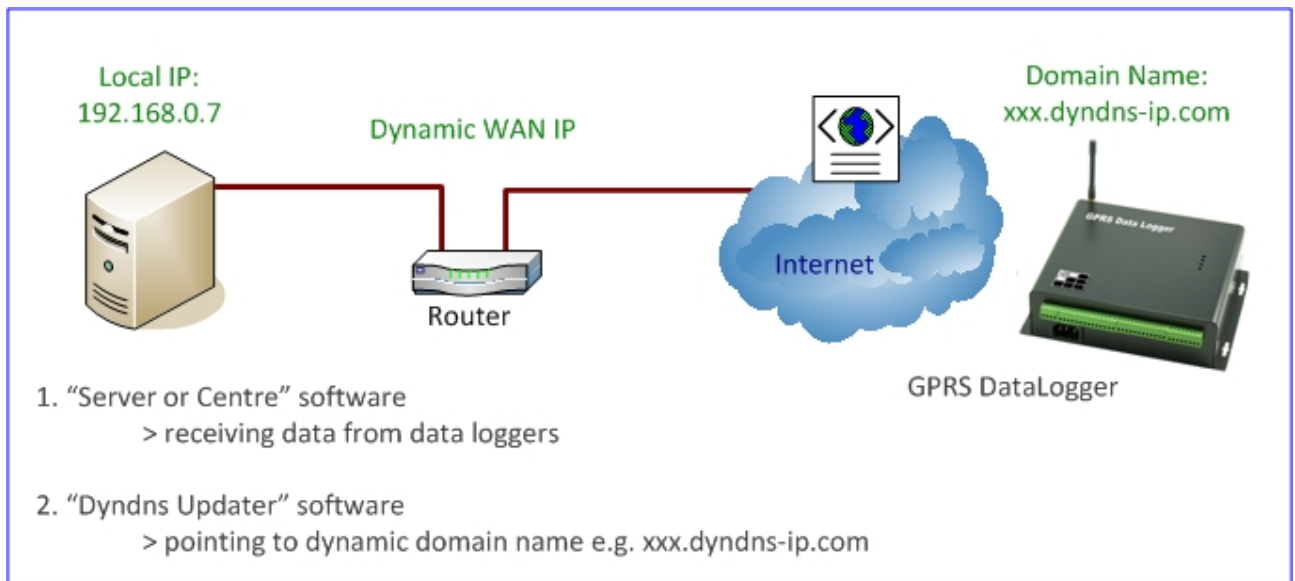- Internet connection ready

SIM card

- GPRS service is activated
- Call ID service is activated
- PIN code must be removed (disabled, but not 0000)

Start Up Steps

(1) Register Dynamic Domain Name

(2) Install IP Updating Software e.g. Dyndns Updater

(3) Install server software e.g. Centre or Premium Server

(4) Configure data logger

4. About using Dynamic Domain Name

Please check carefully your local network and router configuration:

In the example case of this manual:

A) GPRS Data Logger configuration should be setup as below.
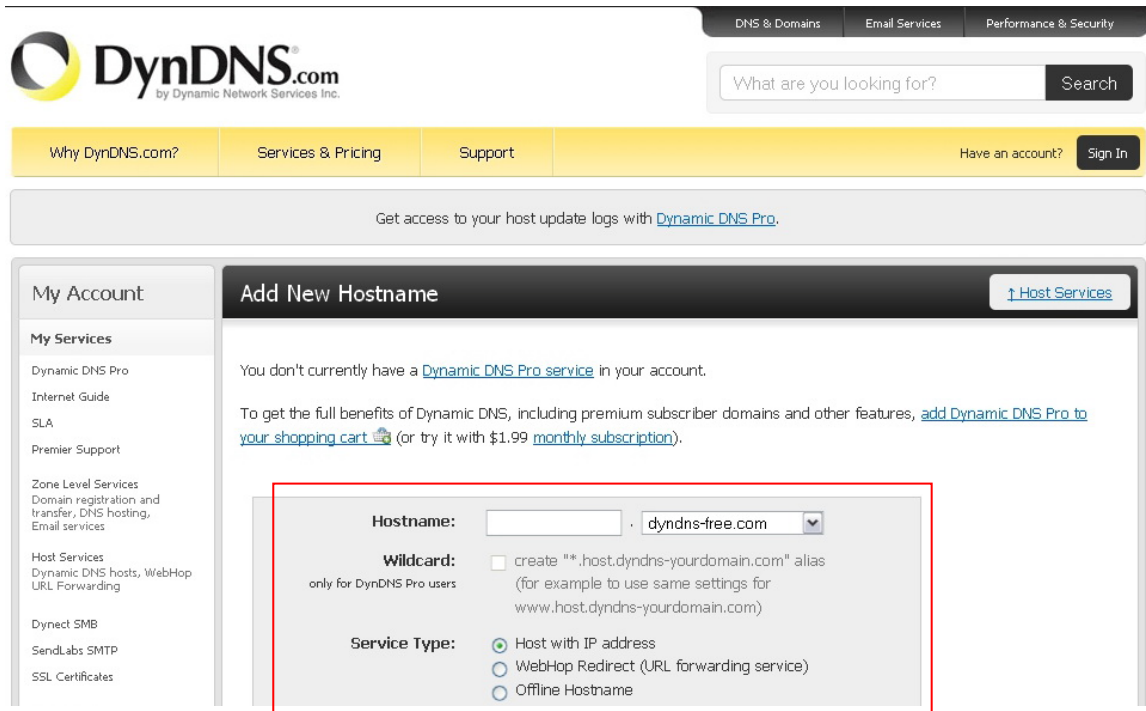
Access Point: (please check with your local service provider)

Server Port::   7050

Server IP: (leave blank)

Domain Name: gs902.dyndns-ip.com

B) Server Computer running the following software is assigned with local IP as below, but points

to the dynamic domain name automatically.

1. "GS828_Centre" or "Premium Server"

2. "Dyndns Updater"

Local IP: 192.168.0.12

Local Port: 7050

5. Dynamic Domain Name Registration

- There are a number of websites providing free or charged dynamic domain name.

- Here, we would quote an example using free service provided by www.dyndns.com for review.

Register a hostname and select the host, and in our case:
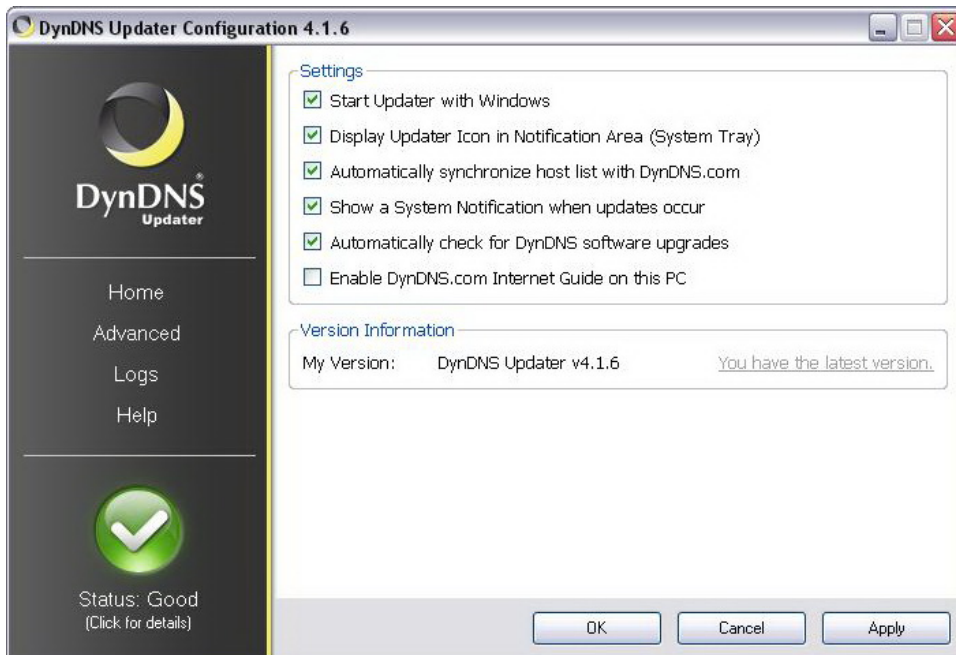
- Hostname: gs902
- Host: dyndns-ip.com

6. Updating IP in Server
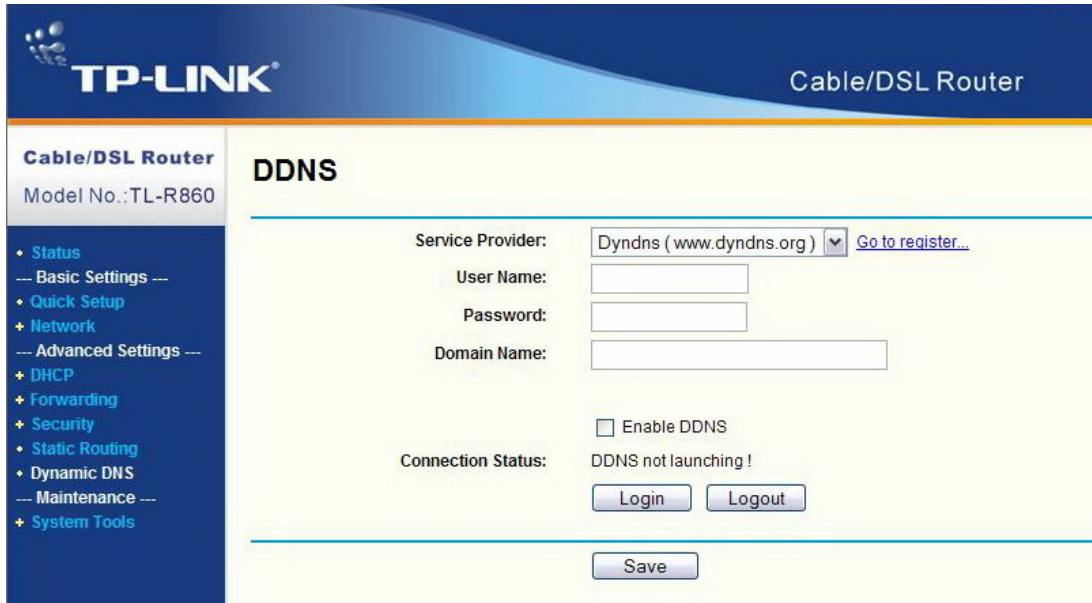
- Download and run the software "Dyndns updater"

- Make sure that the server computer keeps running the "Dyndns Update".
- It allows the server computer keeping linking to the dynamic domain name.

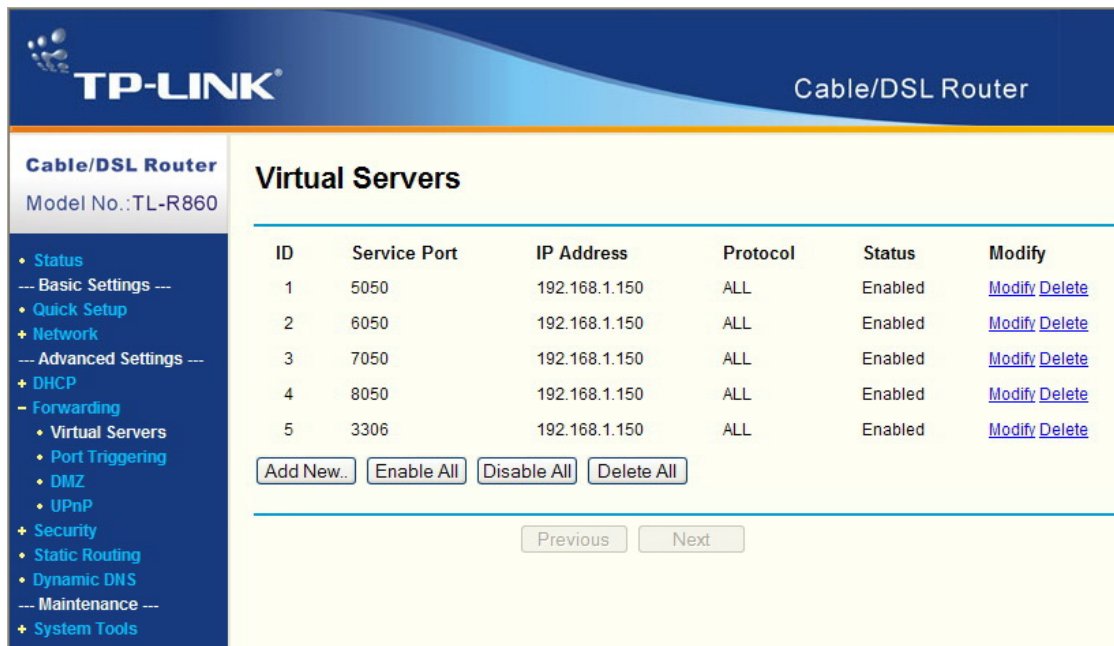ⓘ Make sure that the Status is "Good" after running the Dyndns Updater.

7. Updating IP in Router

- Some routers provide DDNS [dynamic domain name service]

- Configure the router with registered ddns account

- In this case, server computer does not need to run "Dyndns Updater"

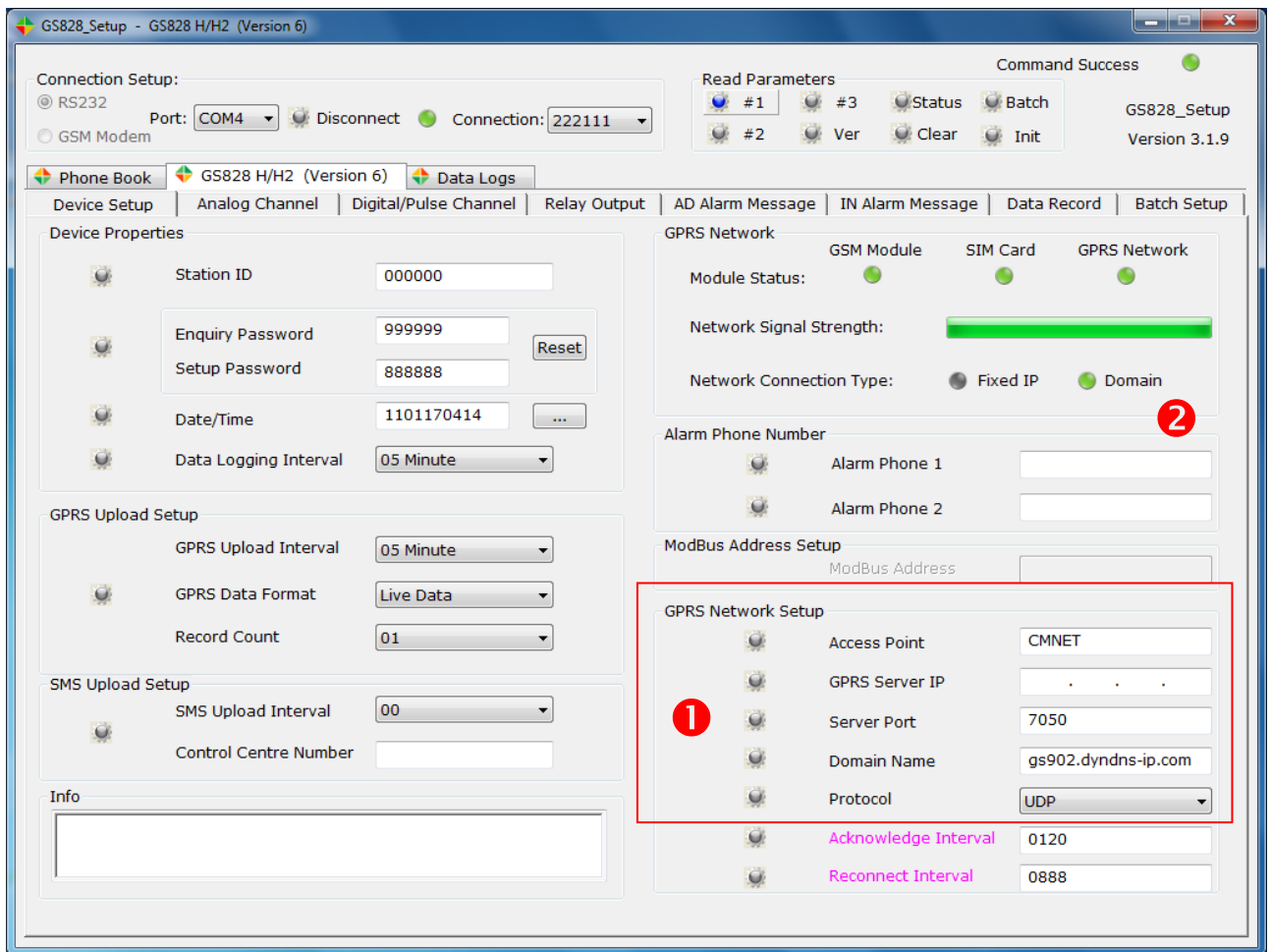### 8. Port Setting in Router

- Service Ports must be enabled in Router

  - ✓ NET Server Port
  - ✓ Server Port
  - ✓ Client Port

9. Data Logger Setup

Following parameters should be configured in the data logger:

- Access Point: (please check with your local service provider)
- Server Port: 7050
- Server IP: (leave blank)
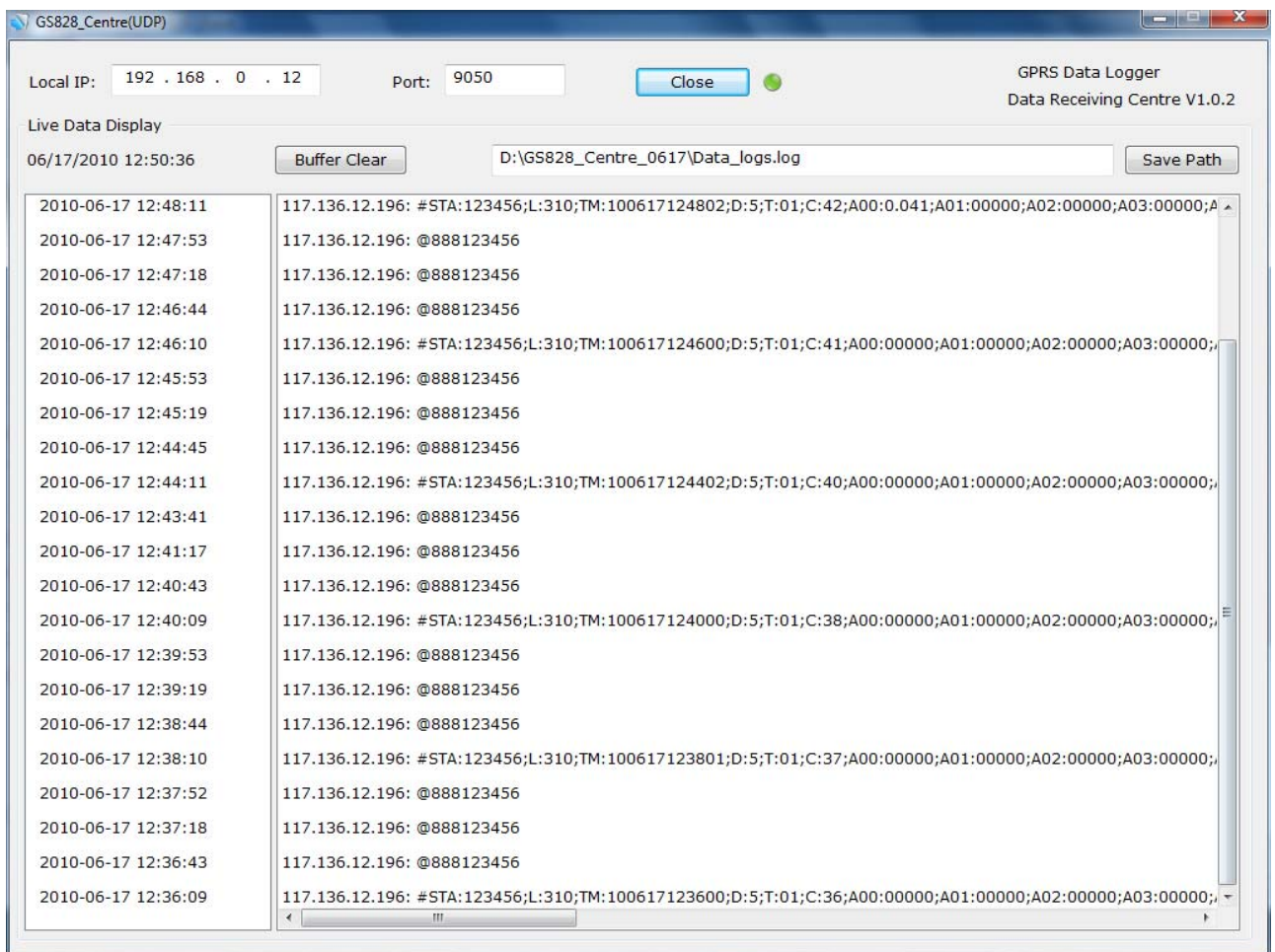- Domain Name: gs902.dyndns-ip.com

Click #1 button

- Module Status 3 x LED: Green
- Domain LED: Green

Set GPRS upload interval: 05 minutes, and format: Live Data

Data will be uploaded to the server.

10. Receiving Data

- Run the "Centre" or "Premium Server" software in server computer
- Make sure that the computer running "Centre" software also runs the "Dyndns Updater"
- When Router DNS service is used, "Dyndns Updater" is not necessary.
- Data will be saved in the "Data_Logs.log" text file
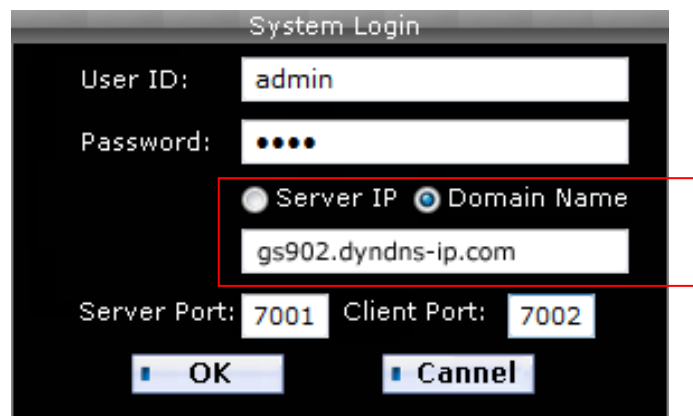- Only one day data will be saved, and overwritten on another day

ⓘ Don't forget to click [Close] before exiting the software. It will release the network port for other applications.

11. Client Software

- Select the domain name

- Enter the dynamic domain name registered above

GS828 Client Software

GPS Client Software