



Data Downloader Setup

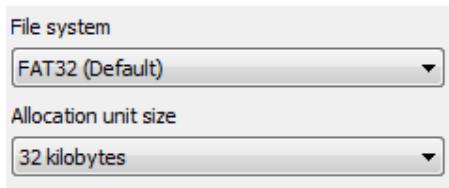
Versions

1	V.1.04.00	Rev1	24/05/17	Magneti Marelli
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1 Requirements

- 1) Workstation with Windows 7 at least – no Windows 10
- 2) .Net Framework 4.5.1 at least
- 3) USB Stick format in FAT32 – Cluster size 32Kb



- 4) Workstation connected to Team Client Router (select one port from 2 to 5) with DHCP enabled (no manual IP set).

2 Installation

- 1) Be sure to have your Local PC time aligned with event time & time-zone
- 2) Launch the provided installer:
“Install_DataDownloader_1.04.00&DataUploader_2.07.00-32Bit-FIA-RCS.exe”

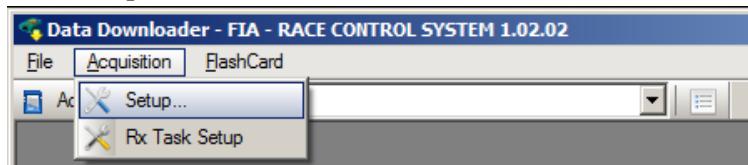


- 3) Follow the Setup Procedure without changing any default settings
In case of update, when requested chose “Repair” (default option)
- 4) You can find the shortcut for “DataDownloader” and “DataUploader” into your desktop

3 Setup

3.1 Data Downloader

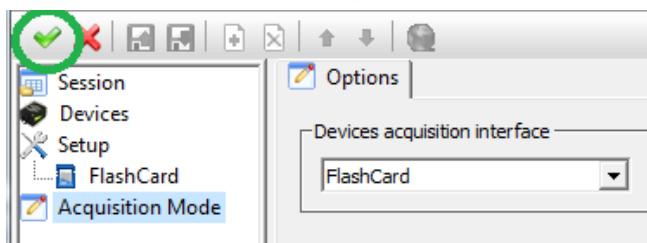
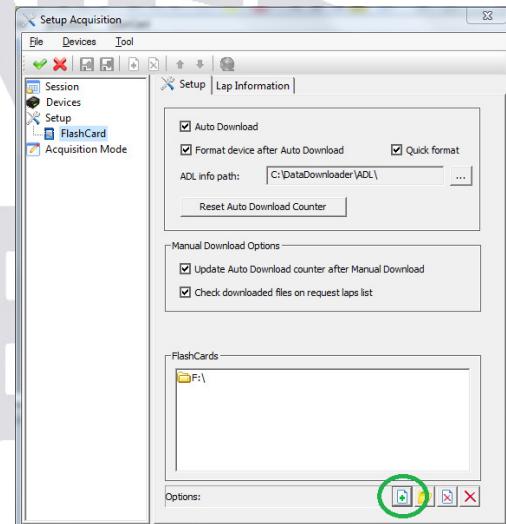
- 1) **Very Important:** a brand new USB stick must be manually formatted from Windows Operating System with FAT32 file system and cluster at least 32 KB.
- 2) Open “Data Downloader” application
- 3) Connect Device Stick to the PC using the USB adapter provided
- 4) Go to “Acquisition / Setup”



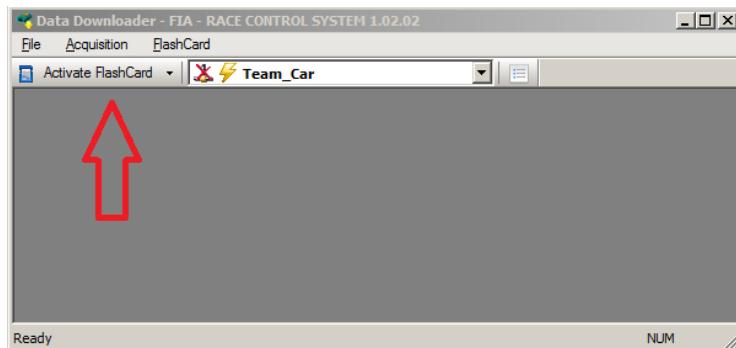
- 5) In the Setup Page, Click on “FlashCard”
- 6) Click on the green ‘+’ icon (underlined in green in the above picture)
- 7) Select the USB drive correspondent to the connected Stick (e.g. F, G, H, etc..).

It will appear into FlashCards list above. You can select more than one drive letter.

- 8) **Very Important:** click on the green button in the upper left corner then to apply changes.



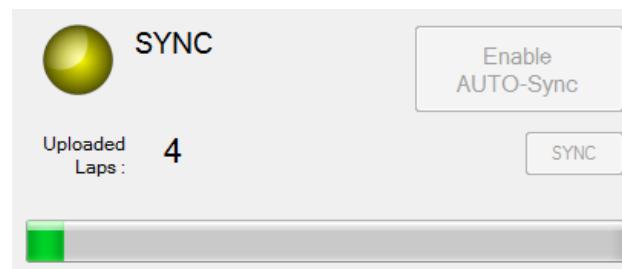
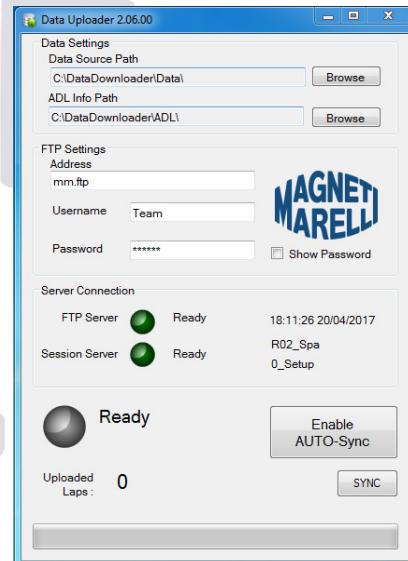
- 9) **Very Important:** Keep the Setup Window closed. Do not open this window again unless is necessary.
- 10) Click On “Activate FlashCard” Button



- 11) The button will become Red and start downloading if new data is found on the stick

3.2 Data Uploader

- 1) Open Data Uploader Application
- 2) Insert your personal information provided by FIA/ACO into the related fields:
 - Address : mm.ftp
 - Username
 - Password
- 3) Press “Enable AUTO-Sync” Button
The button will be shown as pressed and the status led will become Green.
When activated, data already downloaded and all new data will be sent to the server.



Note: In case of issues you can disable the AUTO-Sync feature and use the SYNC button to manually send data to the Server

- 4) **Very Important: Keep the Data Uploader software always opened.**



4 Warnings

- 5) Be sure to have your Local PC time aligned with event time & time-zone
- 6) Format all your USB stick before each event as described above: FAT32 with 32Kilobytes cluster size
- 7) Keep the workstation connected to the Team Client router as much as possible, especially during download and upload process
- 8) If the download does not start when connecting USB try add the USB drive letter again in Data Downloader (see chapter 3.1)
- 9) Keep the Data Uploader Software always opened to retrieve the Session updates.
- 10) Check the status leds in Data Uploader for FTP and Session connection; In case of red status, contact Magneti Marelli support.
- 11) Before downloading data by connecting the USB Stick, check the session displayed in Data Uploader to be the one expected; In case of not correspondence (e.g session displayed FP2 during Qualifying), contact Magneti Marelli support.

5 Appendix

For complex team scenarios, we describe below the system architecture, in order to give the team the possibility to integrate with their own network setup.

Team Router configuration described may be different for your team. Contact network supplier for details.

5.1 System Architecture

By connecting to the Team Router network from port 2 to 5, three services are generated:

- 1) Timing Services: not described in this document.
- 2) Session Info: a periodic multicast packet is sent to the multicast group 227.168.25.1 at port 30002 (for WEC) or 30003 (for ELMS) containing current Session Information.

This session info is used both by Data Downloader and Data Uploader to mark USB Data correctly. The source address can be both 10.247.11.1 or 192.168.75.20.

The source port for the multicast data is randomly chosen by the Operating System.

- 3) FTP Upload: from the workstation multiple TCP/FTP session are initiated to send USB data in C:\DataDownloader\Data\ to the FTP Server (mm.ftp) which is located at address 192.168.75.20. The destination port used for this connection are 21 and from port 60000 to 61000.

The source port for the FTP connection is randomly chosen by the Operating System.

