

CRD_MR Viewer

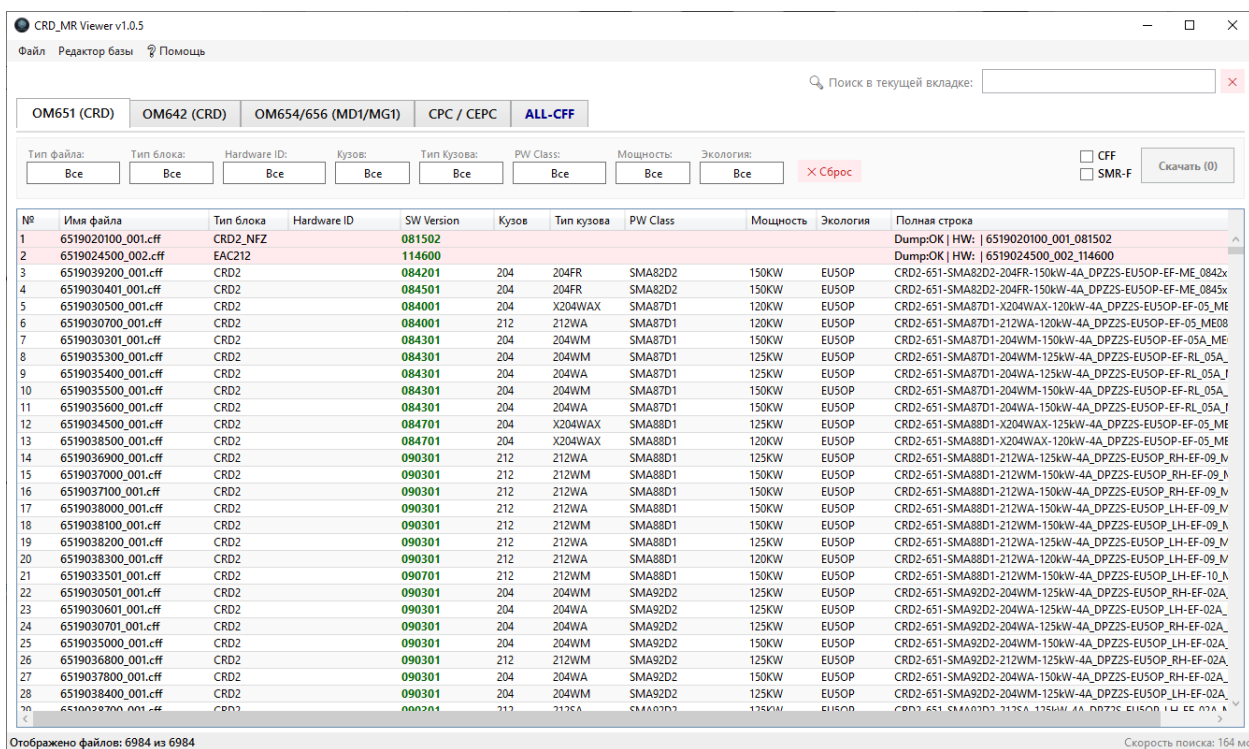
Comprehensive User Manual

1. Introduction

CRD_MR Viewer is a professional tool for instant search, selection, filtering, and downloading of factory firmware (CFF / SMR-F) for Mercedes-Benz electronic control units (OM651, OM642, MRD1, CPC, etc.). The program operates with local encrypted databases, providing access to tens of thousands of records in milliseconds, and features powerful tools for mass file downloading and sorting.

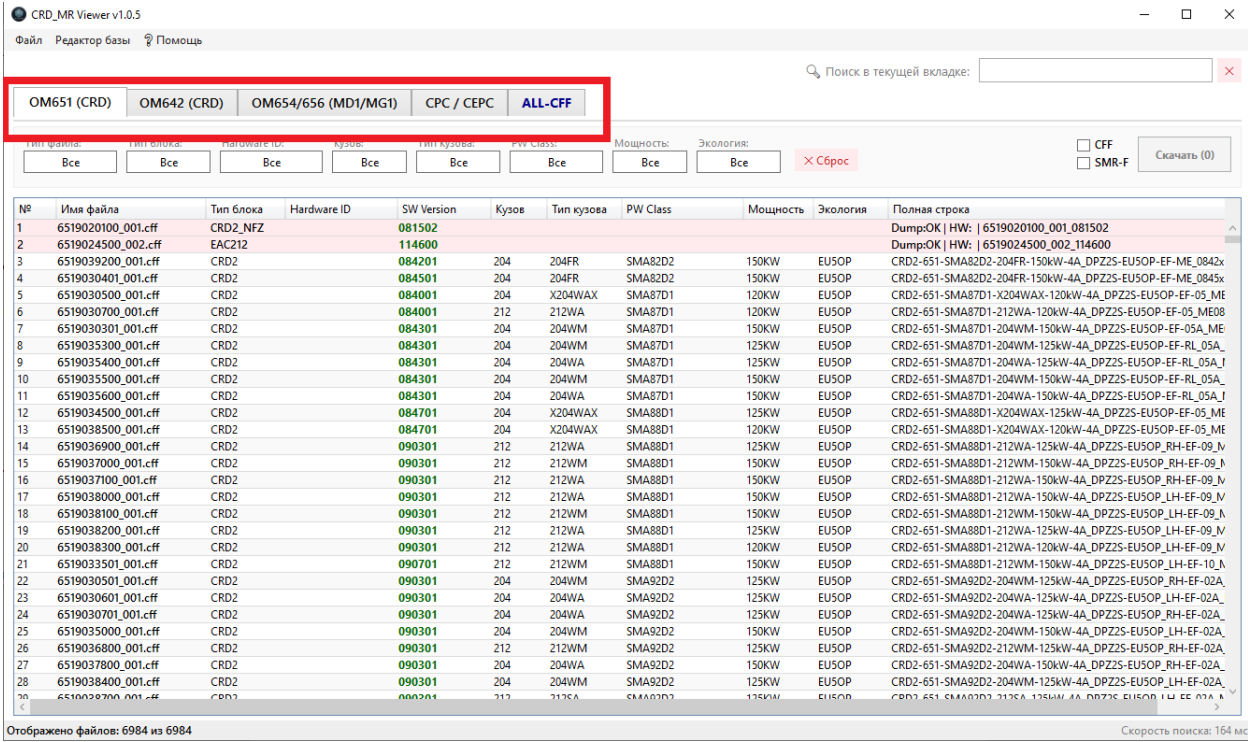
2. Main Interface and Navigation

The interface is designed for maximum performance speed.



The database switching tabs are located at the top of the screen:

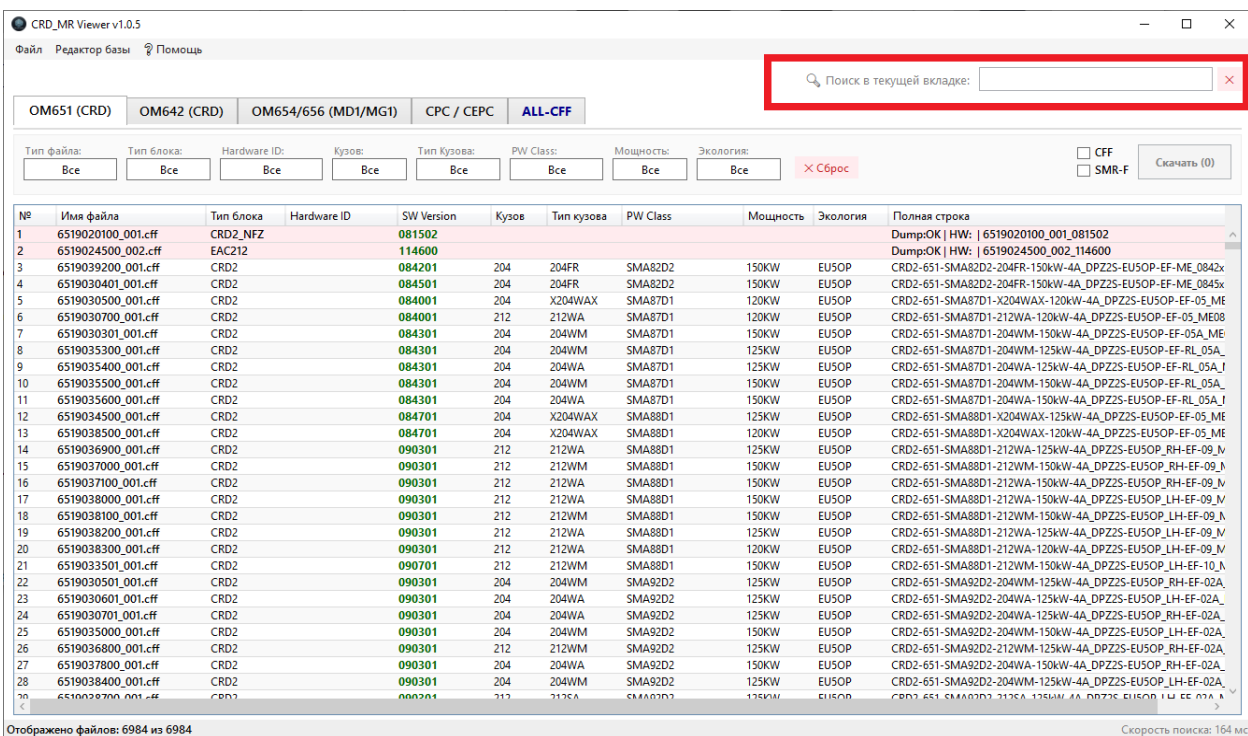
- **OM651 (CRD) / OM642 (CRD)** — Main databases for diesel engines.
- **OM654/656 (MD1/MG1)** — Databases for modern Bosch platforms.
- **CPC / CEPC** — Transmission/body control units (contain unique columns: "Release", "Dataset").
- **ALL-CFF** — Global search across all available files without deep detailing of specific parameters.



When switching tabs, the database loads instantly, and the total number of available files is displayed in the lower-left corner of the status bar.

3. Search, Filtering, and Sorting Tools

3.1. Live Search

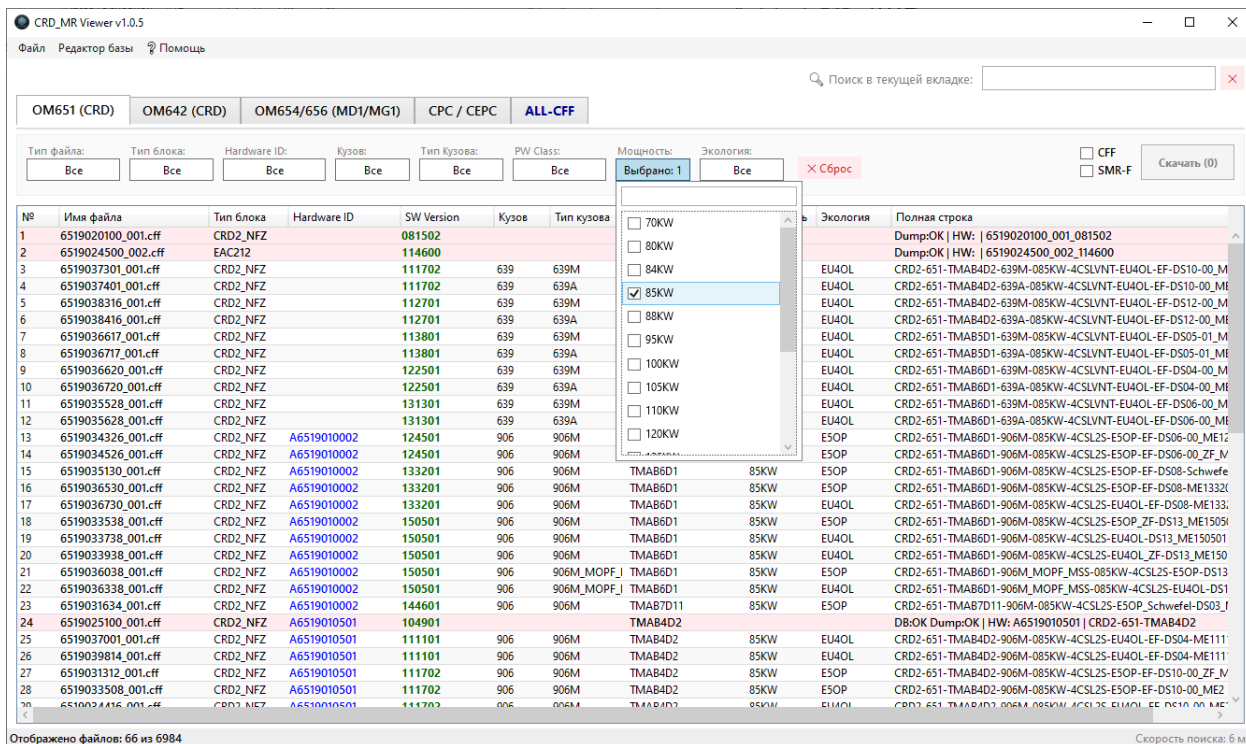


The text field in the upper-right corner. This is a global filter applied to all columns of the current tab.

- Start typing any parameter: unit number (651902), chassis (212), power (150KW)
- The table is filtered in real time. The query execution speed is displayed in the lower-right corner.

3.2. Filter Panel (Categories)

Below the tabs is a row of category buttons.



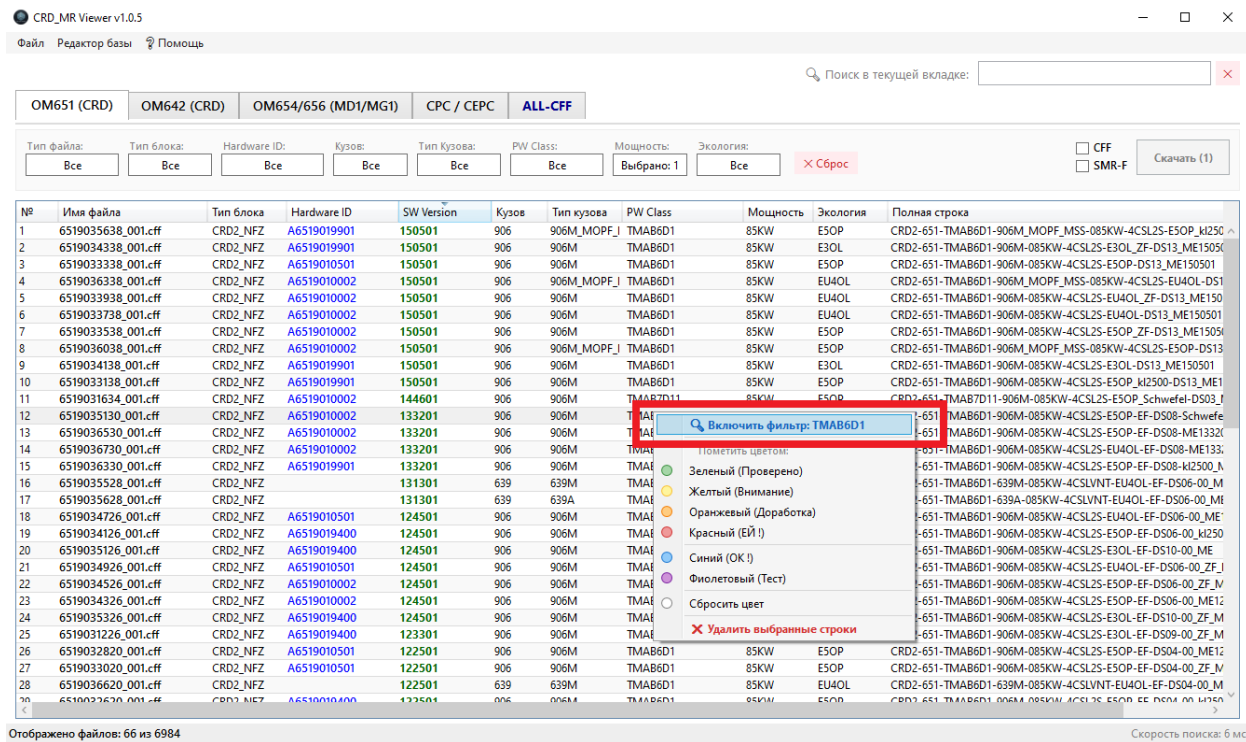
- **Multiple selection:** You can check multiple checkboxes within a single filter.
- **Reset:** To clear all selected filters, click the red "❌ Reset" (Reset) button.

3.3. Column Sorting

- Left-click on any column header to sort alphabetically/by value. Clicking again will reverse the sorting direction.

3.4 Sorting via Mouse Click

Right-click on any cell—except "File Name", "SW Version", or "Full String"—for instant sorting by the selected type from that cell.



4. Color Coding

- **White rows:** Standard, verified database files.
- **Light red rows:** Files requiring attention (draft records, non-standard versions).
- **Blue rows:** Rows you have highlighted with the mouse for further actions.

5. File Selection and Basic Downloading

5.1. How to Select Files

- **One by one:** Left-click on a row.
- **Range:** Hold Shift and click on the last required row.
- **Scattered:** Hold Ctrl and click on specific rows.

5.2. Quick Download (Direct)

The screenshot shows the CRD_MR Viewer v1.0.5 application window. At the top, there are tabs for different file types: OM651 (CRD), OM642 (CRD), OM654/656 (MD1/MG1), CPC / CEPС, and ALL-CFF. Below the tabs, there are filters for file type, block type, hardware ID, version, type of version, power class, power, and ecology. A search bar is located at the top right. In the top right corner, there is a red box highlighting the download options: CFF, SMR-F, and a green button labeled "Скачать (7)".

№	Имя файла	Тип блока	Hardware ID	SW Version	Кузов	Тип кузова	PW Class	Мощность	Экология	Полная строка
1	6519035638_001.cff	CRD2_NFZ	A6519019901	150501	906	906M_MOPF_J	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M_MOPF_MSS-085KW-4CSL2S-E5OP_ki250
2	6519034338_001.cff	CRD2_NFZ	A6519019901	150501	906	906M	TMA86D1	85KW	E3OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E3OL_ZF-DS13_ME15050
3	6519033338_001.cff	CRD2_NFZ	A6519010501	150501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-DS13_ME150501
4	6519026938_001.cff	CRD2_NFZ	A651901002	150501	906	906M_MOPF_J	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-906M_MOPF_MSS-085KW-4CSL2S-EU4OL_DS1
5	6519033938_001.cff	CRD2_NFZ	A651901002	150501	906	906M	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-EU4OL_ZF-DS13_ME150
6	6519033738_001.cff	CRD2_NFZ	A651901002	150501	906	906M	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-EU4OL_DS13_ME150501
7	6519033538_001.cff	CRD2_NFZ	A651901002	150501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP_ZF-DS13_ME15050
8	6519036038_001.cff	CRD2_NFZ	A651901002	150501	906	906M_MOPF_J	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M_MOPF_MSS-085KW-4CSL2S-E5OP-DS13
9	6519034138_001.cff	CRD2_NFZ	A6519019901	150501	906	906M	TMA86D1	85KW	E3OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E3OL-DS13_ME150501
10	6519033138_001.cff	CRD2_NFZ	A6519019901	150501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP_ki2500-DS13_ME1
11	6519031634_001.cff	CRD2_NFZ	A651901002	144601	906	906M	TMA87D11	85KW	E5OP	CRD2-651-TMAB7D11-906M-085KW-4CSL2S-E5OP_Schwefel-DS03_J
12	6519035130_001.cff	CRD2_NFZ	A651901002	133201	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS08-Schwefe
13	6519036530_001.cff	CRD2_NFZ	A651901002	133201	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS08-ME1332C
14	6519036730_001.cff	CRD2_NFZ	A651901002	133201	906	906M	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-EU4OL-EF-DS08-ME1333
15	6519036330_001.cff	CRD2_NFZ	A6519019901	133201	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS08-ME1332C
16	6519035528_001.cff	CRD2_NFZ		131301	639	639M	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-639M-085KW-4CSL2S-EU4OL-EF-DS06-00_M
17	6519035628_001.cff	CRD2_NFZ		131301	639	639A	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-639A-085KW-4CSL2S-EU4OL-EF-DS06-00_M
18	6519034726_001.cff	CRD2_NFZ	A6519010501	124501	906	906M	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-EU4OL-EF-DS06-00_ME
19	6519034126_001.cff	CRD2_NFZ	A6519019400	124501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS06-00_ki250
20	6519035126_001.cff	CRD2_NFZ	A6519019400	124501	906	906M	TMA86D1	85KW	E3OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E3OL-EF-DS10-00_ME
21	6519034926_001.cff	CRD2_NFZ	A6519010501	124501	906	906M	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-EU4OL-EF-DS06-00_ZF_J
22	6519034526_001.cff	CRD2_NFZ	A651901002	124501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS06-00_ZF_M
23	6519034326_001.cff	CRD2_NFZ	A651901002	124501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS06-00_ME11
24	6519035326_001.cff	CRD2_NFZ	A6519019400	124501	906	906M	TMA86D1	85KW	E3OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E3OL-EF-DS10-00_ZF_M
25	6519031226_001.cff	CRD2_NFZ	A6519019400	123301	906	906M	TMA86D1	85KW	E3OL	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E3OL-EF-DS09-00_ZF_M
26	6519032820_001.cff	CRD2_NFZ	A6519010501	122501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS04-00_ME12
27	6519033020_001.cff	CRD2_NFZ	A6519010501	122501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS04-00_ZF_M
28	6519036620_001.cff	CRD2_NFZ		122501	639	639M	TMA86D1	85KW	EU4OL	CRD2-651-TMAB6D1-639M-085KW-4CSL2S-EU4OL-EF-DS04-00_M
29	6519033620_001.cff	CRD2_NFZ	A6519019400	122501	906	906M	TMA86D1	85KW	E5OP	CRD2-651-TMAB6D1-906M-085KW-4CSL2S-E5OP-EF-DS04-00_ZF_M

Отображено файлов: 66 из 6984

Скорость поиска: 6 мс

This function is for quickly fetching files into a single location "

1. In the right panel, select the format: **CFF** and/or **SMR-F**.
2. Click the **Скачать (X)** (Download) button above the table.
3. The program will prompt you to select a folder and will simply download all selected files there without creating additional subfolders.

6. Advanced Tools ("File" Menu)

For professional work with archives and structuring your local software collection, use the main **File** menu in the upper-left corner of the window.

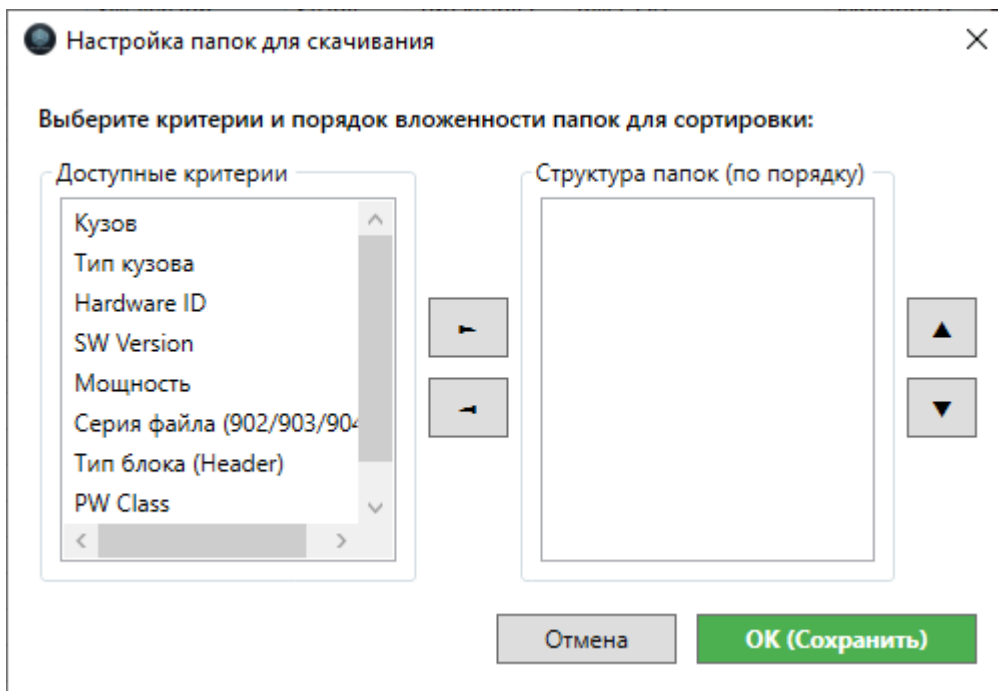
The screenshot shows the CRD MR Viewer v1.0.5 interface. The 'File' menu is open, highlighting options like 'Открыть папку с .dat базам...', 'Обновление файлов (Downloader)...', and 'Скачать файлы с вкладкой...'. Below the menu is a search bar and filter controls. A table displays data with columns: №, Имя файла, Тип блока, Hardware ID, SW Version, Кузов, Тип кузова, PW Class, Мощность, Экология, and Полная строка. The table contains 28 rows of data. At the bottom, it indicates 'Отображено файлов: 66 из 6984' and 'Скорость поиска: 6 мс'.

6.1. Download Files from Tab... (Download with Sorting)

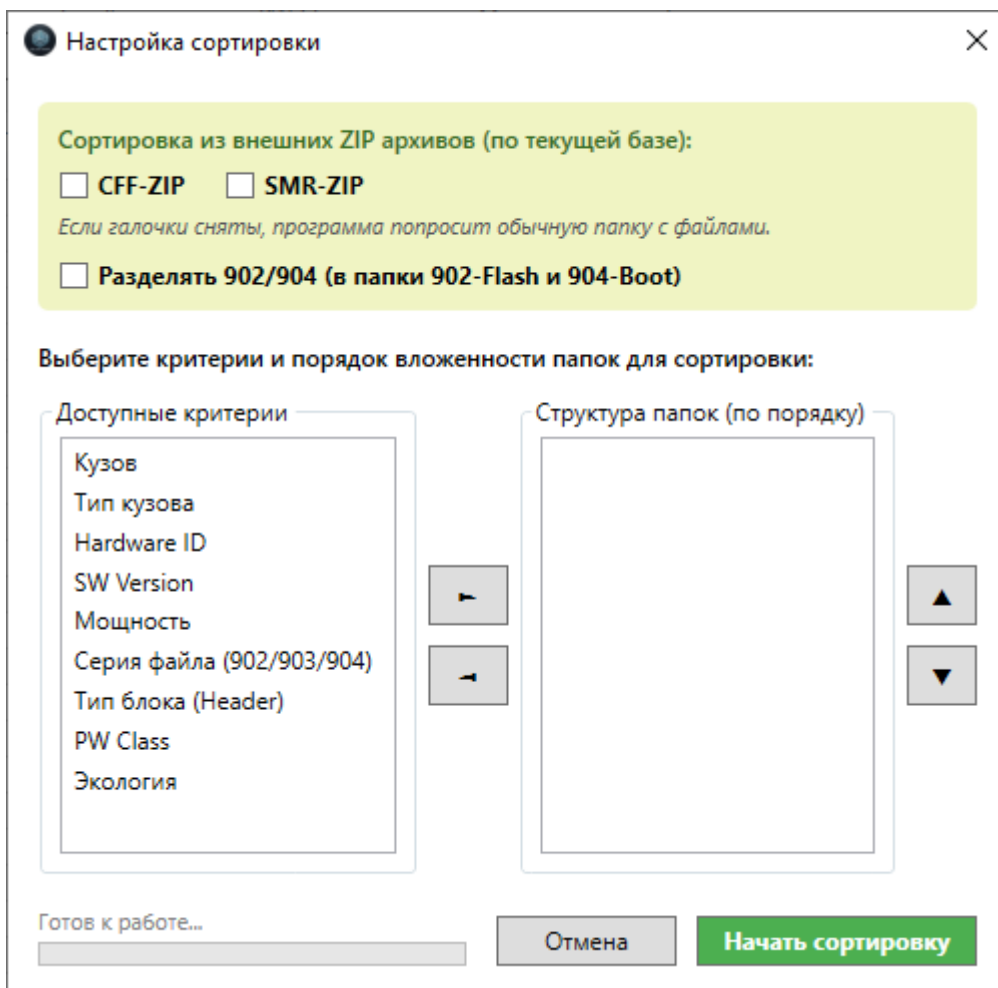
The screenshot shows the 'Массовое скачивание файлов' dialog box. It features a title bar with a close button. The main text reads: 'Загрузка файлов из текущей вкладки напрямую с серверов Mercedes.' Below this are two sections: '1. Типы файлов для скачивания' with checkboxes for 'Файлы CFF' and 'Файлы SMR-F' (both checked), and '2. Постобработка после скачивания архивов' with checkboxes for 'Разархивировать' and 'Сортировать по папкам' (both unchecked). A note states: 'Сортировка отключена. Файлы сохраняются в одну папку.' At the bottom, there is a progress bar, a 'Готов к скачиванию...' label, and three buttons: 'Старт', 'Пауза', and 'Сброс'.

Unlike quick downloading, this mode doesn't just download the selected files; it automatically organizes them into structured folders (e.g., grouped by unit number or chassis) directly during the download process.

Ideal for building your own organized database.

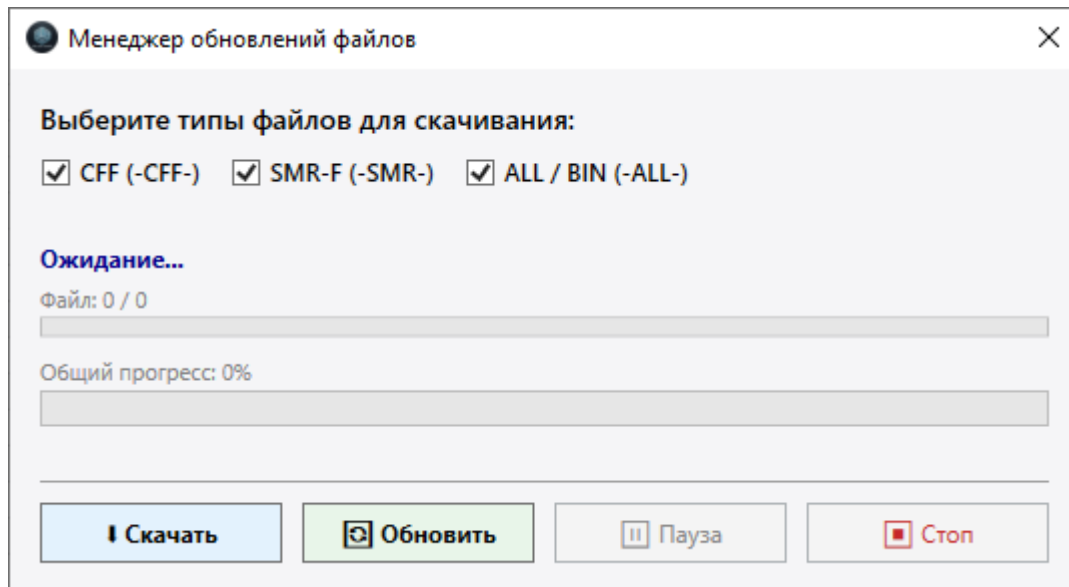


6.2. Sort Files (Offline)



A tool for organizing previously downloaded files. If you have a folder containing thousands of mixed .cff files, simply run this tool on it. The program will analyze each file against its database and neatly sort them into corresponding directories.

6.3. File Update (Downloader)



A powerful mass download manager.

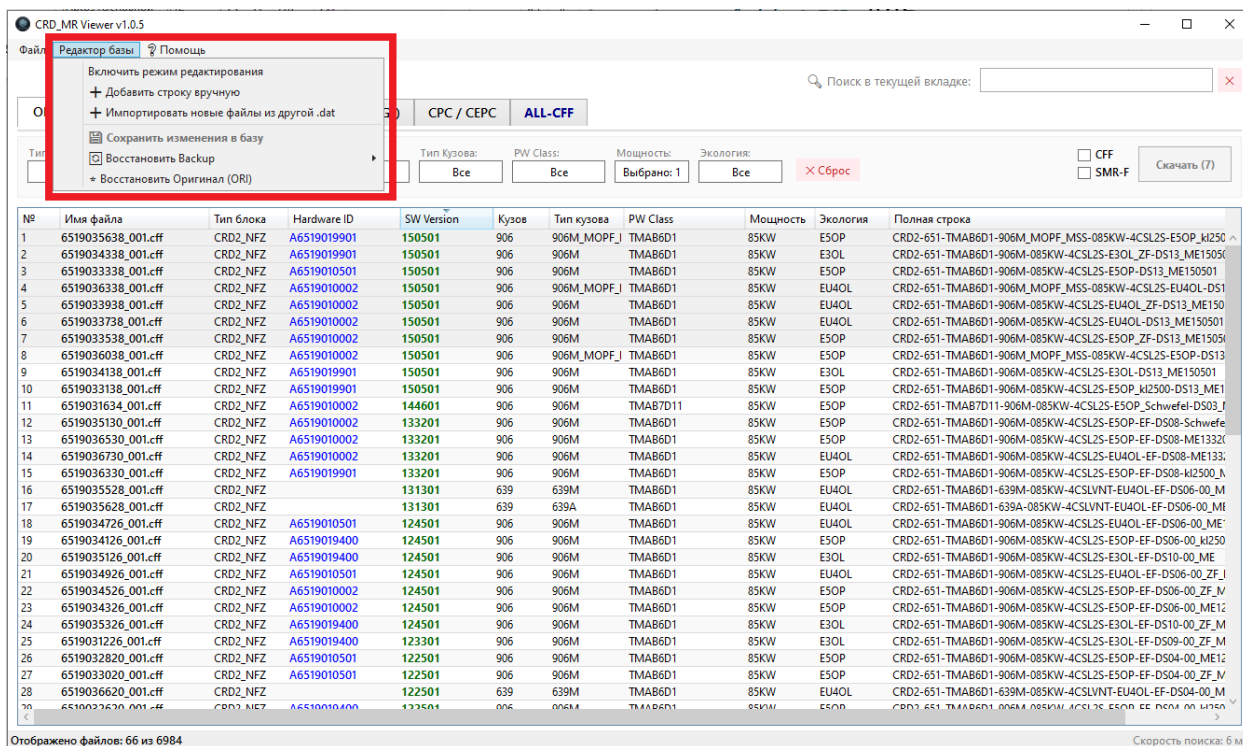
- Designed for users who want to download absolutely all files of a specific type to their disk, or update their local database to the current state.
- The Downloader automatically verifies the presence of files and only downloads the missing firmware.

6.4. Import New Links

The download link database is separated from the main database. If the file server has migrated, or the developer has released a package of updated links:

1. Select **Import new links**.
2. Specify the received .json file containing the new paths.
3. The program will update the download paths without affecting the structure of your database (.dat) files.

7. Built-in Database Editor



If you need to add new firmware or modify descriptions, select the **Database Editor** item in the top menu of the program (next to the "File" and "Help" buttons). (*Editing .dat files with third-party software is strictly prohibited*).


- **Adding a record:** Fill in the necessary fields (Hardware ID, SW Version, Chassis, etc.) and click the add button. The new record will be indexed for search.
- **Editing:** Select an existing row, make changes to the desired cells, and save. You can also change the row's color coding (e.g., mark a row as red).
- **Saving:** Upon saving changes, the program automatically recalculates internal indices, encrypts the database using the AES algorithm, and safely overwrites the .dat file in the DB folder.

Attention: The program automatically creates a backup copy of the files from the DB folder to the DB/Backup folder. There are also untouched original database files. To restore the database to its initial state, there are 2 options:

1. Copy from the DB/ORI folder to the DB folder and remove the _ORI prefix.
2. In the program, under the **Database Editor** tab – select **Restore Original (ORI)**.

ВНИМАНИЕ! ДОБАВЛЕНИЕ В БАЗУ:
OM651 (CRD)

Сменить базу:

 **Выбрать .CFF файл и заполнить всё автоматически**

Быстрое заполнение

Вставьте полную строку (Signature):

* Программа сама разнесет данные по полям ниже

Имя файла (SW Number):

Hardware ID: SW Version:


Тип блока (Header):

Кузов (Body): Тип кузова (Body Full):

PW Class:

Мощность:

Экология (Euro):

 Ссылка на CFF файл:

 Добавить в базу

8. Database Updates from the Developer

Upon receiving a fresh database file:

1. Close the program.
2. Navigate to the program's DB folder and replace the old .dat file with the new one.
3. Launch the program — the database will update automatically.