The trackerMemoryTool.py is designed to convert the binary files (.dat) of the FaceSDK Tracker API to text files (.json) and vice versa. This utility also allows you to merge two or more Tracker API files into one.

In order to convert the Tracker API file from one format to another, just run the utility and specify the input file as one parameter:

trackerMemoryTool.py <inputfile.ext>

The tool will automatically determine the format of the source file and generate a new file in a different format (.dat -> .json or .json -> .dat) with the name outputfile.json or outputfile.dat.

You can specify the name of the output file using the -o option:

trackerMemoryTool.py <inputfile.ext> -o<outputfile.ext>

To merge two or more files into one, you need to list all the input files in the parameters and specify the name of the output file using the -o option:

trackerMemoryTool.py <inputfile1.ext> <inputfile2.ext> <inputfile3.ext> -o<outputfile.ext>

Input file formats can be different and either binary or text. The format of the output file is determined by the extension (json for text).

When merging files, new face IDs can be assigned to faces if these IDs are already present in other files. The names of the faces (profiles), if they exist, are also checked. In this case, faces with the same profile names in different files will be merged into one profile. Persons with the same templates are merged in one profile so that the same templates are not duplicated.

The trackerMemoryTool works in Python 3.x and does not require installing the FaceSDK library. Only Tracker API files created in FaceSDK 7.0 and higher are supported.

Other options available in trackerMemoryTool.py:

-sid   Skip image data. When creating a new database the images of faces will be removed.

-profileid<id>   Extract face images for profile id. All images will be created as .png files. Note, that pillow library is required to perform this action (run "pip install pillow" in command prompt).

-remove<id>   Remove profile id. The new database will not contain faces with given profile id.

-extract<id>   Extract profile id. The new database will contain only faces with given profile id.