

This utility allows you to check and modify the Required Modules List (**RML**). The RML is an intrinsic part of a DCS mission file (*.miz). The RML lists external mods, e.g. like the free 'Community SkyHawk A-4E-C' or the 'OV-10 Bronco', which are indeed not integral part of DCS, but which can anyway be embedded in a mission.

Generally, all DCS modules - except the external mods - are managed and displayed by DCS itself. Hence a client will properly perceive the shape of a DCS module (flown by another player), even if that module is not installed on his PC.

In contrast, external mods, are only known to the server/client PCs on which they are installed. This means, although a mod might indeed be part of a mission, if that mod is not installed on a client PC, then it might neither be controlled nor properly be displayed by DCS on that client PC.

Therefore, if an external mod is embedded in a mission, then an according entry is added to the RML, in order to prevent a client from joining the mission, if that mod is not installed on his PC.

Luckily, this **MIZ_RML** utility allows to bypass this restriction by removal of selected or all RML entries. Hence, using this utility, you can grant clients without the respective external mods to anyway access a mission, which has embedded external mods.

However be aware that clients without mods will only see a default shape (SU-27? for airplanes) instead of the real shape of an external mod flown by another player. And also be aware that the RML of a mission is automatically re-established as soon as you modify/save a mission within the DCS Mission Editor, so you have to re-adjust the RML using this utility again.

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IMPORTANT:

- a) This version of the **MIZ_RML** utility requires the 7-Zip tool on your PC in order to let the utility un-zip and re-zip a 'mission' file from and to a .miz archive. I recommend that you have the tool installed on your PC in favour of automatic detection of the 7-Zip tool via Windows registry. For more information refer to <https://7-zip.org/>.
 - b) Alternatively you can also make use of the portable version which can be obtained through <https://portableapps.com/> (see page 3).
 - c) It is strongly recommended to use the latest version of the 7-Zip tool.
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How to use the MIZ_RML utility with a standard installation of the 7-Zip tool

1. Start the **MIZ_RML** utility. The tool's main form pops up.
2. Drag'n'drop a DCS mission file (*.miz) onto the utility's main form.

You can also use the Open File Dialog to navigate to the location of the '.miz' file and to select a mission.
3. Subsequently the automatic processing will scan the .miz archive and will present any active RML entries in a dedicated RML Configuration form.
4. On the RML Configuration form, you then select any or all entries which you want to have removed.

Take note that removal means deactivation and not deletion. Hence you can anytime re-activate a deactivated entry by replacing the double-dash (--) with a bracket-double-quote ([") inside the RML section within the 'mission' file.
5. After a click on the 'Remove Selected' button of the RML Configuration form, the selected entries are neutralized and the .miz file is updated accordingly.

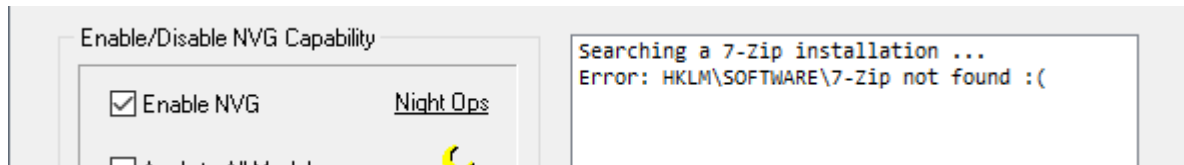
Take note that you can opt for a backup file of the .miz before executing any modifications by using the 'Backup miz file' checkbox.

Backup .miz files will be renamed with their date/time as new extension (e.g. 'my_test_mission.miz' to 'my_test_mission.20230130_001636').
6. Repeat steps 2 to 5 for each DCS mission (.miz) which you want to modify accordingly.

All work is executed in a temporary working subfolder (tmp-rml-7z) which is automatically deleted after finishing.

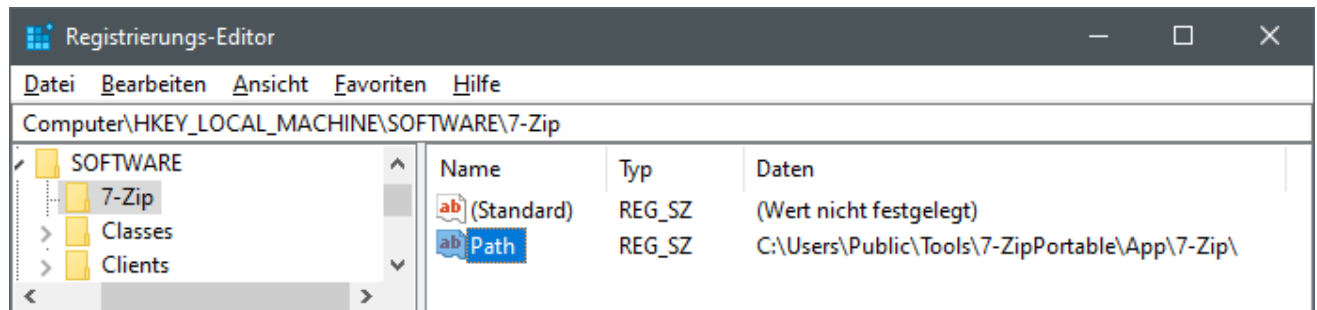
How-To with a 7-Zip Portable Version

If you don't have a 7-Zip installation then you should also have no according entry in the registry and therefore an error message may occur as shown below.

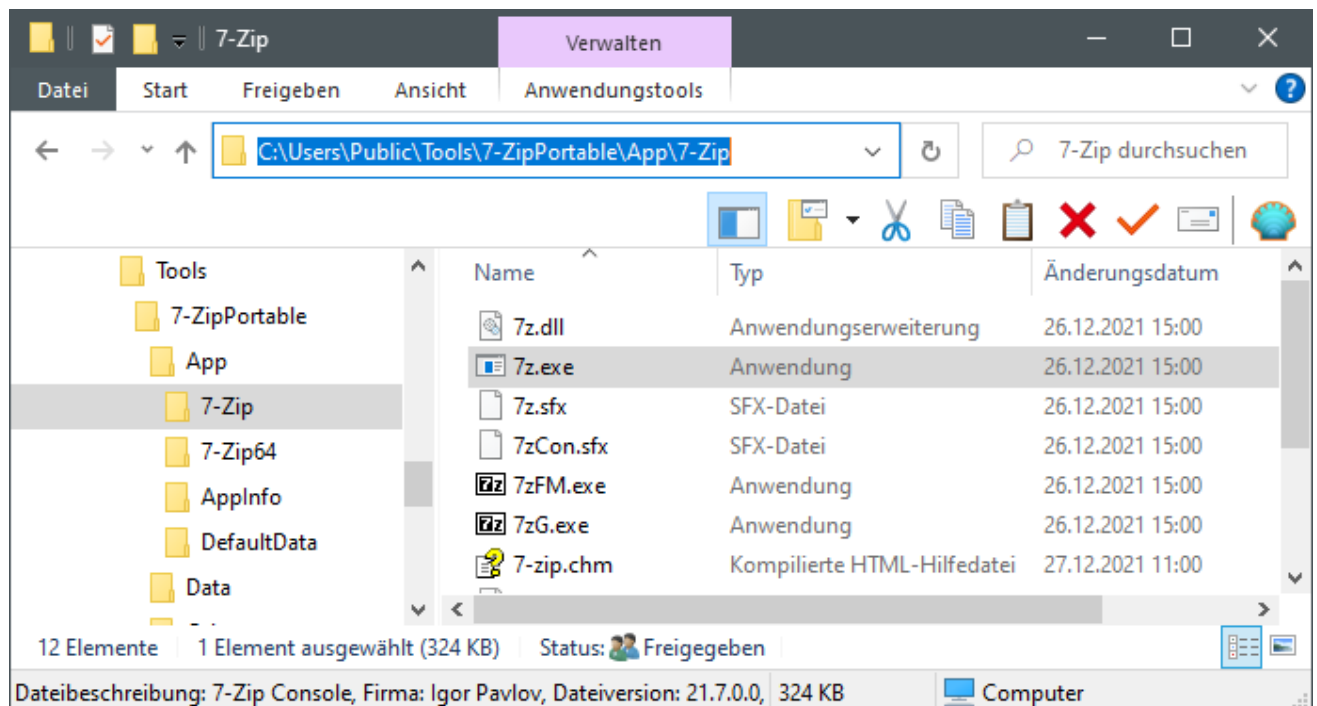


So, either perform a standard 7-Zip installation (which is recommended from my part) or, if you want to work with the 7-Zip Portable version, set up a dedicated registry key to define the **Path** to your portable **7z.exe** (see below). Be sure to include a final back-slash in the **Path** definition of the registry key.

Note: Modification of the registry requires admin rights, only apply if you are sure what you are doing!



Get the path to the **7z.exe** from the proper subfolder of your portable version, e.g. as shown below.



If you prefer, you could set the Path to the 7-Zip64 folder instead.