

# Startup Properties

During the startup sequence of MapTool several properties can be defined on different places. This guide tries to make it a little bit more clear, which can be set where and how.

## Definitions of Startup Properties

Startup Properties are properties, you can set only during the startup phase of the application. If you change same, you have to restart the application. There are several reasons for this behavior:

- JVM property: They are for the java virtual machine in where the application is running. Best examples are the memory properties to define the memory usage of the JVM.
- Only on startup relevant: E.g. which campaign is loaded during startup is only relevant during startup
- Complicate to change later: E.g. changing the location of files (e.g. MAPTOOL\_DATADIR) during a session is complicated and normally not necessary.

## Locations To Set Values

First of all, try to use the startup tab on the option window in the maptool UI. The application will try to save your changes in the correct location. But not all settings are changeable over the UI and if the UI tells you, to do the change by yourself, it is god to know some backgrounds.

You can set the value of a property on several locations. Since there are no guaranties, that the value of a property is set on only one location or that it has the same value on all locations, there is a clear hierarchy for the priority of a location.

The locations and there priority from high (overwrite) to low (will be overwritten) by higher locations first:

- **MapTool Command Line Option**
  - When you start the MapTool application, you can start it with optional parameters
  - With -h you can get a list of the current command line options of MapTool

- E.g. `maptool.exe -D="data dictionary"` to tell MapTool where the data dictionary is (should be)
- **Startup Property File**
  - The standard location & name of this file is `startup.properties` in the `config` subdirectory of the data dictionary of MapTool. E.g. `{user.home}/.maptool/config/startup.properties`
  - There is an `startupExample.properties` file with instructions and a list of the currently supported properties at the default location
  - A property is a key value text pair with a '=' or ':' between them
  - E.g. `MAPTOOL_DATADIR="data dictionary"`
  - More details about the format of a properties file are on this [Wiki page](#)
- **JVM Command Line Parameters (-D, -X, ...)**
  - MapTool uses launchers generated with `jpakege`, which does not allow users to use JVM command line parameters
  - Use the section `[JavaOptions]` in `MapTool.cfg` to change JVM parameters.
- **MapTool.cfg (-D, -X, ...)**
  - The configuration file of MapTool is in the `app` subdirectory of the application home directory, e.g. `{application home}/app/MapTool.cfg`
  - This file is overwritten during an update and holds user specific parameters and inherent application specific parameters together
  - Use the startup property file for user specific parameters
  - This location should only be used if the application has problems to change general setups of the application.
  - It has 3 sections:
    - `[Application]`  
Only developers will change here sometimes something
    - `[JavaOptions]`  
With the startup properties, you should no longer have to change things here, unless you have runtime troubles with MapTool.
    - `[ArgOptions]`  
In this section you can set command line options with a lower priority as the direct command line but with a higher priority then the startup properties.  
This is used by MapTool to set the correct version.  
With the startup properties, a user should no longer change things here.
- **Default System Properties**
  - Most default system properties are dependent values from the operating system (OS) and are set by the JVM
  - e.g. `user.home` get his value (path&name) of the OS specific home directory of the current user in the OS who starts the application
  - The non standard system properties will get there default value from the application
- **Default Values**
  - This values are defined inside the MapTool application to define a fallback value, if needed.

## Property Overview

This table should give you an overview about all properties during the startup process.

| KEY                | Default Value      | System | Startup | Command Line |            | Set By | Description   |
|--------------------|--------------------|--------|---------|--------------|------------|--------|---|
|                    |                    |        |         | short        | long       |        |   |
| os.name            | os dependent       |        |         |              |            |        | Name of the operating system  |
| user.home          | os dependent       |        |         |              |            |        | Home directory of the os user   |
| MAPTOOL_DATADIR    | .maptool           | +      | (+)     | D            | datadir    | user   | Main directory for runtime data (under user home)<br>Will be ignored in Startup, if<br>MAPTOOL_STARTUP_FILE is relative to the data<br>directory.                       |
| MAPTOOL_LOGDIR     | logs               | +      | +       |              |            | user   | Directory for logging data (under datadir)  |
| CONFIG_SUBDIR_NAME | config             |        |         |              |            |        | Subdirectory under datadir for configuration data   |
| TEMP_SUBDIR_NAME   | tmp                |        |         |              |            |        | Subdirectory under datadir for temporary data   |
| CMD_OPTIONS_HELP   |                    |        |         | h            | help       | user   | Command options incl. description to log and<br>information frame   |
| DEBUG_FLAG         | false (not set)    | -      |         | d            | debug      | adv.   | Set log level to debug and turn on system.out<br>enhanced debug output  |
| VERSION_OVERWRITE  | current version    | -      |         | v            | version    | dev.   | Overwrites the MapTool version. <b>ONLY FOR<br/>DEVELOPMENT.</b><br>Some MapTool functions will break if the version is<br>not set correct! This can corrupt your data! |
| FULLSCREEN_FLAG    | false (not set)    | -      | +       | f            | fullscreen | user   | Maximize the MapTool window on startup  |
| MONITOR_TO_USE     | -1 (not overwrite) | -      |         | g            | monitor    | adv.   | Sets which monitor (graphical device) to use.   |
| WINDOW_WIDTH       | -1 (not overwrite) | -      |         | w            | width      | adv.   | Override MapTool window width. Only usable<br>together with monitor and height  |
| WINDOW_HEIGHT      | -1 (not overwrite) | -      |         | h            | height     | adv.   | Override MapTool window height. Only usable<br>together with monitor and width  |
| WINDOW_XPOS        | -1 (not overwrite) | -      |         | x            | xpos       | adv.   | Override MapTool window starting x coordinate.<br>Only usable together with monitor and ypos  |

| KEY                           | Default Value                        | System | Startup | Command Line |            | Set By | Description   |
|-------------------------------|--------------------------------------|--------|---------|--------------|------------|--------|---|
|                               |                                      |        |         | short        | long       |        |   |
| WINDOW_YPOS                   | -1 (not overwrite)                   | -      |         | y            | ypos       | adv.   | Override MapTool window starting y coordinate. Only usable together with monitor and xpos   |
| LIST_MACRO_FLAG               | false (not set)                      |        |         | m            | macros     | adv.   | Writes a list of the defined macro functions into the log                                   |
| RESET_FLAG                    | false (not set)                      |        |         | r            | reset      | adv.   | Reset startup options to defaults   |
| DEPRECATED_LOAD_CAMPAIGN_NAME |                                      | -      |         | F            | file       |        | Load campaign from file on startup. Deprecated: Please use C or campaign                    |
| LOAD_CAMPAIGN_NAME            |                                      | -      | +       | C            | campaign   | user   | Load campaign on startup. Arg.: Full file path and name of the campaign                     |
| MAPTOOL_STARTUP_FILE          | startup.properties under config dir. | -      |         | P            | props-file | user   | Override name (& path) of the startup properties file                                       |
| SKIP_AUTO_UPDATE_FLAG         | false (not set)                      |        | +       |              |            | user   | Skips the auto update process. There is also a user preference to do this.                  |
| user.language                 | default from OS                      | +      | +       |              |            | user   | Sets the (default) language for the MapTool UI. Fallback will be en (English).              |
| user.region                   | default from OS                      | +      | +       |              |            | user   | Sets the (default) region (country) for the MapTool UI. E.g. how date or numbers are shown. |
| MAX_MEM                       |                                      | +      |         |              |            | adv.   |   |
| MIN_MEM                       |                                      | +      |         |              |            | adv.   |   |
| STACK_SIZE                    |                                      | +      |         |              |            | adv.   |   |
| ASSERTION                     |                                      | +      |         |              |            | adv.   |   |
| JAVA2D_D3D                    |                                      | +      |         |              |            | adv.   |   |
| JAVA2D_OPENGL_OPTION          |                                      | +      |         |              |            | adv.   |   |
| MACOSX_EMBEDDED_OPTION        |                                      | +      |         |              |            | adv.   |   |

## Legend / Notes

| Legend        | Description  |
|---------------|--|
| KEY           | identification of the value  |
| Default Value | The value, which is used if the value of the key is not set explicitly |

| Legend                | Description  |
|-----------------------|--|
| System                | Can be set in the MapTool.cfg or by the JVM command line parameters, if there is a + in the key row<br>Can be set in the MapTool.cfg using the command line option key with a '-' as prefix in the[ArgOptions] section, if there is a - in the key row.  |
| Startup               | Can be set in the startup properties file, if there is a + in the key row. (+) has side conditions, see description in the row of the key  |
| Command Line Short    | A single letter to use with a '-' as prefix in the command line of the application call to select the key  |
| Command Line Long     | A single word to use with a '-' as prefix in the command line of the application call to select the key  |
| Set By                | Normally set by a normal user (user) or an advanced user (adv.) or a developer (dev.)  |
| Description           | Description to the key meaning and usage   |
| Note for              | Note   |
| Keys ending with FLAG | This keys have a boolean value, true or false. There default value is false and if they are set somewhere, they will be true, no matter what value was used to set the key.<br>(E.g. If you set SKIP_AUTO_UPDATE_FLAG="false" the value will be true!!! It can never be set back to false)<br>Command line has no argument. (E.g. -f or -fullscreen and not -f="true") |

## user.language

[ISO 639 alpha-2 \(-1\) or alpha-3 \(-2\) language code](#), or registered language subtags up to 8 alpha letters (for future enhancements). When a language has both an alpha-2 code and an alpha-3 code, the alpha-2 code must be used. ISO 639 alpha-2 or alpha-3 language code, or registered language subtags up to 8 alpha letters (for future enhancements). When a language has both an alpha-2 code and an alpha-3 code, the alpha-2 code must be used.

MapTool has currently translations for the following languages. Since most developer do not speak all this languages, it can always be, that the newest text is not yet translated. Then the fallback (English) will be shown.:

| Code | Language (en)                |
|------|------------------------------|
| en   | English (Default - Fallback) |
| ach  | Acoli                        |
| cs   | Czech                        |
| da   | Danish                       |
| de   | German                       |
| es   | Spanish; Castilian           |

| Code | Language (en)  |
|------|----------------|
| fr   | French         |
| it   | Italian        |
| ja   | Japanese       |
| nl   | Dutch; Flemish |
| pl   | Polish         |
| pt   | Portuguese     |
| ru   | Russian        |
| sv   | Swedish        |
| uk   | Ukrainian      |
| zh   | Chinese        |

## user.region

[ISO 3166 alpha-2 country code](#) or [UN M.49 numeric-3 area code](#).

## Recommendation

First try to change the values over the startup tab on the option window. On some OS the MapTool.cfg file is not writeable, so you can not change everything what you can see.

Specially the command line options have to be set directly by yourself.

If you need your own dictionary location(s), best practice would be to set the -P command line option to tell MapTool, what the path & name of the startup property file is and define anything else in that file.

(The data dictionary directory can only be set in the startup properties file, if the startup properties file will be located independent from the data dictionary!)

If your MapTool application seems to be instable and your OS does not allow the setting of new values over the startup tab on the option window, then go and try to manipulate the MapTool.cfg file.

Try to avoid changes in the MapTool.cfg file, because the file will be overwritten by the next update.

# State

## Under Construction

For MapTool Version 1.12.x (under development)

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