

# Customize ES Systems

EmulationStation displays systems based on a file called `es_systems.cfg`, located at `/usr/share/emulationstation`. In the past, you had to edit this file and use the command `batocera-save-overlay`. This had issues when updating as all overlays have to be removed, meaning you'd have to redo these steps every update.



Batocera introduced the ability to copy the file to `/userdata/system/configs/emulationstation/es_system.cfg` and edit it there, however this meant you would have to compare and copy the file every update, as well as appending your changes and working out if something had broken (as Batocera adds new systems nearly every major release and changes the launch methods for other systems too).



Batocera now treats extra `/userdata/system/configs/emulationstation/es_systems_<custom_name>.cfg` as overlays to the original `/usr/share/emulationstation/es_systems.cfg` file. This has the benefit of only requiring you to maintain the list of *your* personally added system entries, as opposed to needing to scour through the entire document every update.



If you upgrade from a previous Batocera version to **v31** or higher, you **need to update** your `es_systems*.cfg` files to reflect the change of Python version. As you can see below, starting with Batocera **v31**, the location for the emulator launcher is `/usr/lib/python3.9/site-packages/configgen/emulatorlauncher.py` and not `/usr/lib/python2.7/site-packages/configgen/emulatorlauncher.py` as it used to be in previous versions. There is no Python 2.7 on Batocera **v31** or higher.

## Create a new system-specific ES systems CFG file

You can create a file named `es_systems_<custom_name>.cfg` where `<custom_name>` is a name you wish to use for it. This file needs to follow the same conventions as the original `es_systems.cfg`, but does not need to include the entirety of the file. For example:

[es\\_systems\\_3do.cfg](#)

```
<?xml version="1.0"?>
<systemList>
  <!-- This line is a comment, not necessary for the system. These will
  explain things, and can be safely removed. -->
  <system>
    <!-- The full name of the system, the one that will appear in
    menus and such. -->
    <fullname>3DO Interactive Multiplayer</fullname>
```

```
<!-- The short name, the one used for the path to the system's
ROMs and other internal uses. -->
<name>3do</name>
<!-- Metadata. The company/companies that made the system, also
known as "Brand". Metadata tags like this aren't truly necessary, but
can make organization easier. -->
<manufacturer>Panasonic - Sanyo - Goldstar</manufacturer>
<!-- Metadata. Release date. -->
<release>1993</release>
<!-- The type of hardware. Batocera doesn't particularly use
this for anything, but it might be useful to specify here for future
changes. -->
<hardware>console</hardware>
<!-- Extremely important, the path to look for this system's
ROMs in. This should always start with /userdata/roms/. -->
<path>/userdata/roms/3do</path>
<!-- The file extensions of ROMs that should be scanned into
ES's gamelist.xml when the user rescans their gamelist. Delimited by
whitespaces. You must include the period mark (.) and proper
capitalization. -->
<extension>.iso .chd .cue</extension>
<!-- Ordinarily this is the command line used to directly run
the program, but Batocera relies on config generators to do so. This
simply calls that generator, along with some other information. -->
<command>python /usr/lib/python3.9/site-
packages/configgen/emulatorlauncher.py %CONTROLLERSCONFIG% -system
%SYSTEM% -rom %ROM%</command>
<!-- The platform to use when scraping for metadata for this
system's games. The full list of available platforms are in
https://github.com/batocera-linux/batocera-emulationstation/blob/master
/es-app/src/PlatformId.cpp -->
<platform>3do</platform>
<!-- The theme to load from the current theme-set, if
supported. Usually, this is identical to the shortname. Check your
theme's readme for more info. -->
<theme>3do</theme>
<emulators>
<!-- These are the emulators used for the system. This is
handled entirely by Batocera, and is not necessary for a custom es
systems, but is shown here for reference. -->
  <emulator name="libretro">
    <cores>
      <core default="true">opera</core>
    </cores>
  </emulator>
</emulators>
</system>
</systemList>
```

would only affect the 3DO system on your Batocera, with the rest of the systems still referring to `/usr/share/emulationstation/es_systems.cfg` for their system CFG. When both files contain the same systems, `es_systems_<custom_name>.cfg` will take priority.

In case you'd like to have complete control over ES systems CFG, you can still use the two previous methods to completely override it (ie. using overlays or copying the entirety of `es_systems.cfg` to `/userdata/system/configs/emulationstation/es_systems.cfg` without appending a custom system name to its filename).

Batocera is smart enough to *only* apply the changes you make. Such as, if the only thing you need to change for a system is its ROM path, you can use the following in your `/userdata/system/configs/emulationstation/es_systems_pico8.cfg`:

### `es_systems_pico8.cfg`

```
<?xml version="1.0" encoding="UTF-8"?>
<systemList>
  <system>
    <name>pico8</name>
    <path>/userdata/roms/pico8real</path>
  </system>
</systemList>
```

Here, it'll use the folder `/userdata/roms/pico8real/` to look for Pico-8 games instead of the regular one.

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