UHC Configuration File

The UHC Configuration file is a file that is read before the game starts up and that allows modders to define which UHC Patch features should be loaded and to extend or change hardcoded properties that can't be generalized just by pure coding, like farming animations, proper market behavior, maximum population capacity and so on...

By default, it should be located at <AoE3 Path>\Startup\uhc.cfg . The location of the UHC configuration file can be changed by setting a different location while installing the patch or changing the value of the offset 0x00865083 in the age3y.exe after applying the patch.

An example UHC Configuration File can be found at the *Documentation\Examples* Configuration File folder in the files included with this release.

File Structure

The UHC Configuration File should follow the following structure:

```
multiValueProperty1 Value1 Value2 ...
singleValueProperty=Value3
structProperty ItemIndexA Value1A Value2A ...
patchSetting1
...
```

As for UHC Patch v1.5+, colons (":") should not be used to denote properties and the name of some properties have been changed. The Patcher should be able to do the necessary changes, but, in case it doesn't, the file will have to be manually edited.

Each one of the available properties of the UHC Configuration Files belongs to one of the following categories:

- Multi-value properties: Accept a finite set of items and are used to assign a
 property (or a set of properties) to the given set of items, which may represent
 units or civilizations.
- Single-value properties: Accept only one value and are used to assign a
 particular value to one of the settings of the patch or of the game itself. Those
 properties are denoted by an equal ("=") sign, that explicitly indicates that a
 single particular value should be read and assigned to that property, as seen in
 the example code above.
- Struct properties: Assign additional (and usually optional) values to particular items that are defined in an existing multi-value property. An item to which values will be assigned through a struct property is denoted by its index in the existing multi-value property, which is followed by the values that should be assigned to it.
- Patch Settings: Enable a particular setting or option of the UHC Patch, and are usually set in the UHC Configuration File by the UHC Patcher.

Supported Properties

Multi-value properties:

- enableFarmAnim: Defines the (additional) buildings in which settlers would walk through it while gathering a resource from it, like AoE3 Mills and Plantations.
- rectFarmAnim: Defines the (additional) buildings which would have a behaviour similar to the rectangular Farms of the TWC civilizations.
- marketUnits: Defines which (additional) buildings should support a proper market behaviour.
- **asianCivs**: Defines which civilizations should get export UI, plus support wonder age up.
- **nativeCivs**: Defines which civilizations should get the fire pit UI, plus support council age up.
- tacticSwitching: Defines the (additional) buildings that should support tactic switching through ProtoUnitCommands, like the Factory and the Rice Paddy do, in the original game.

Single value properties:

- **basePop**: Defines the maximum base population to be used by the game. If it's not set, the default value is 200.
- **extraPop**: Defines the maximum extra population to be used by the game. If it's not set, the default value is 50.
- **deckCardCount**: Defines the maximum possible number of cards in a deck. If it's not set, the default value is 25.

Struct properties:

• **farmingRadius**: Defines the maximum area in which villagers should be able to walk, while gathering resources from particular buildings defined in the *enableFarmAnim* property. For every building you want to change the maximum farming radius, you need to assign to this property the index of the building in the *enableFarmAnim* property, followed by the coordinates in the X and Z axis, respectively.

Patch settings:

- **noAlLimit**: Removes the hardcoded 14 Al/Civilization limit by making the game read all .personality files in the from the Al directory defined in the .exe (which should be *Val3*, by default).
- **customRevolutionBanners**: Allows new revolutions to have banners above the revolutionary's portrait in the Revolution UI.
- **ignoreRegistryPath**: Makes the game read the AoE3 files from the folder in which the AoE3 .exe is located, instead of looking for a working path in the registry.
- enableAllTeams: Enables team options 3 and 4 for Single Player and Multiplayer games.

- **removeFameRestriction:** Allows the usage of the Fame Resource in ProtoActions, like AutoGather and ModifyGather.
- **customSyscalls**: Allows the UHC Patch to load and register custom syscalls implemented through plugins.
- **customCheats**: Allows the UHC Patch to load and register custom cheats implemented through plugins.

Notes

After enabling the custom Revolution Banners option in the configuration file used by the UnHardcode Patch, the game will load the banner for a Revolution from the path <code>Art\ui\ingame\politicians\REV_banner_<techname></code>, in which <code><techname></code> would be the name of the technology used by a Revolution, without the "XPRevolution" prefix, but, unlike previous versions of the patch, the original revolutions will retain their original banner paths.

If the option to extend the maximum amount of teams is enabled in the configuration file, in order to make the new teams options show up in Multiplayer lobbies, you'll have to add the following xml entries:

```
<dropdown>$$36143$$Team 3</dropdown>
<dropdown>$$36144$$Team 4</dropdown>
```

After the following entry:

```
<dropdown>$$36145$$Team ?</dropdown>
```

In every <gadget name="mpsetup-playerX-team" ... > entry in both of the data\uiMPGameSetupPage.xml and data\uimpesogamesetuppage2.xml files, where "x" refers to all player numbers from 1 to 8. You can find versions of those files with the necessary edits in the Documentation\Examples\Team Limit folder in the files included with this release.

While the new teams work flawlessly in Single Player, in multiplayer, if any player selects any of the new teams, only this player will see what he or she selected correctly, but the game will detect the new team(s) correctly once the game starts. Original teams aren't affected by this bug, and it isn't present in Single Player.