

# Modding Star Trek: Armada

The game *Star Trek: Armada* allows for extensive [modding](#). A few things you should know or start with:

Armada is based on the [Storm3D Engine](#) which was introduced with [Battlezone](#). As such it uses basically the same technology. You can see this heritage also in the names of maps. Their extensions are *bzn*, for **Battlezone**. Another hint can be found in the file *misc\misc18.des*:

You will lead a small force behind enemy lines to destroy the Furies launch pad. You will only have a limited amount of time to hit your target and then you must return to the dust off site before the moon explodes.

## MISSION OBJECTIVES

- Destroy the Fury launch pad.

This clearly references content that was meant for Battlezone.

## Folder Structure

- Modding files are to be placed in folder *addon*. This may include *tt*, *odf*, *sod* and graphics files.
- The game as such uses videos in [Bink](#) format for the pre-rendered cinematics, which are stored in folder *animations*.
- Graphics of most parts of the GUI are placed in *bitmaps* and are in bmp format.
- The graphics from folder *bmp* are only used by the Launcher.
- The *bzn* contains the actual maps and tech tree files. bmp files are used as map previews, bzn files contain the actual maps and mdf files contain the information about starting positions of players.
- *giddi* contains mapping files for joystick control and are not used by Armada. Here you can also see the heritage from Battlezone.
- *misc* contains different configuration files, e.g. definitions of the different interfaces for the different [Factions](#) of the game.
- *missions* contains the scripts and rules for the [single-player campaign](#).
- *save* contains the saved game states. These are actually also bzn files but with an altered *sav* extension and *ias* files for Instant Action matches.
- *sounds* contains all the sounds, music and voice acting of the game in wav format, 16 bit, mono at 44.1 kHz PCM signed data.
- *Sprites* contains the sprite files, that are used to depict a map object on the tactical map.
- *Textures* contains the textures in TGA format, using extensions *.tga* but also *.1* to *.6*.
- The *wav* folder contains the audio files used by the Launcher.

## File Types

| Extension | Task   |
|-----------|--|
| bzn       | Map object definition, this defines where and which objects are placed on the map. |
| bmp       | Bitmap graphics, used for different aspects of the game.                           |

| Extension | Task   |
|-----------|--|
| odf       | <a href="#">Object Definition File</a> , defines the game mechanic properties (e.g. shields, weapons, scanning rang, etc.) of a unit or station or weapon. |
| tt        | <a href="#">Tech Tree file</a> , contains the rules which objects are available to the player.   |
| dsl       | script file  |
| drl       | Rules file   |
| sav       | Saved game, actually just another extension for bzns.  |
| ias       | Additional information on saved games that were made from an Instant Action match.   |
| sod       | Storm3D Object Definition file, information on meshes, hardpoints and sprite markers.  |
| wav       | audio file   |
| spr       | Sprite, the representation of a map object on the tactical map.  |
| tga       | Truevision TGA graphics, used for the textures   |
| 1 to 6    | Also TGA files, but with a different extension.  |
| zfs       | Zone File System, contains data that is not to be presented in plain.  |

## Assets and Overriding with Addons

By default, the odf files and tt files are not available as single files. They are stored in the zfs files. Most of them are password protected. The odf files are stored inside *assets.zfs*. The game loads these into memory first. Afterwards the files from folder *addons* are loaded on top of it, overwriting any already existing ones (effectively overriding them). This allows for extensive modding of already existing objects.

## Tools

### Storm3D Tool

For viewing and slightly altering SOD files, the so-called *Storm3D Tool* may be used. This tool has one problem: It only works with the CD version of *Star Trek: Armada* (see also [Hashes of the Different Versions](#)). And according to its readme, only in version 1.1 or 1.2. This has been tested under Windows 7 and 10. It can be downloaded from <http://armadafiles.com/files/armada/utilities/modeling-tools/armada-storm3d-sod-utilites/details>.

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[ [Star Trek: Armada](#) ] [ [Game Play](#) ] [ [Technical Support](#) ] [ [Trivia](#) ]

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