# Documentation

for

# Wargame/RUSE Modding suite

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### Introduction

This document is meant to give an overview about the Wargame: Modding Suite and it's built-in features.

### Supported file formats

The Modding Suite supports following file Formats:

```
edata file format (*.dat; *.*pk)
```

The edata file format is a *package* of files in a virtual folder structure. The entire gamedata is packed into such files.

The gamedata packages can be found at "\Steam\SteamApps\common\Wargame Airland Battle\Data\wargame\PC".

```
Ndfbin file format (*.ndfbin, *.kdt)
```

Ndfbin files contain "compiled" bytecode of NDF scripts. NDF stands for *Neurospaces Description Format*.

NDF is the primary scripting language of Eugen System, the majority of game logic and object definitions are written in it.

```
trad file format (*.dic)
```

Trad files are simple dictionary files. Every entry in this dictionary has a *Token*. These tokens are used for the game <u>localisation</u>.

```
tgv file format (*.tgv)
```

Tgv files are texture images. This format is comparable to usual \*.dds files (<u>DirectDraw Surface</u>, texture files for DirectX). The Modding Suite handles tgv files by converting them into \*.dds files and vice versa.

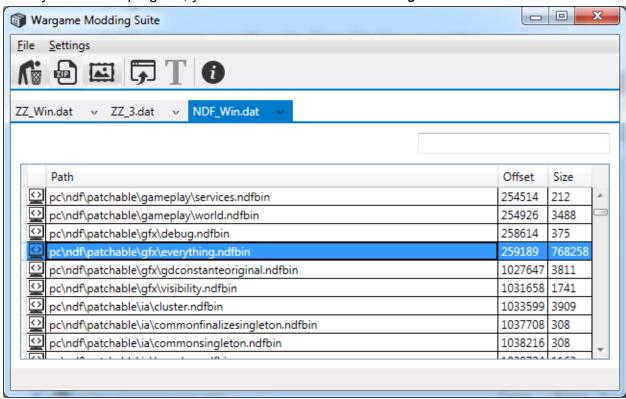
### Getting started

### Requirements

The Modding Suite requires the .NET 4.5 framework which you can download here. Additionally I recommend you to run the software as Administrator.

#### Start the program

Once you start the program, you will see the *Edata File Manager* window.



Edata Flle Manager

To open a gamedata file, select File->Open and go to your Wargame folder (Steam\SteamApps\common\Wargame Airland Battle\Data\wargame\PC). In there, you can see a lot of folders named with a number. These numbers are the game versions. For the first trials, I recommend you to choose a older game version for instance "2100001491". For Wargame: Airland Battle, most of the game logic is stored in the "NDF\_win.dat" file.

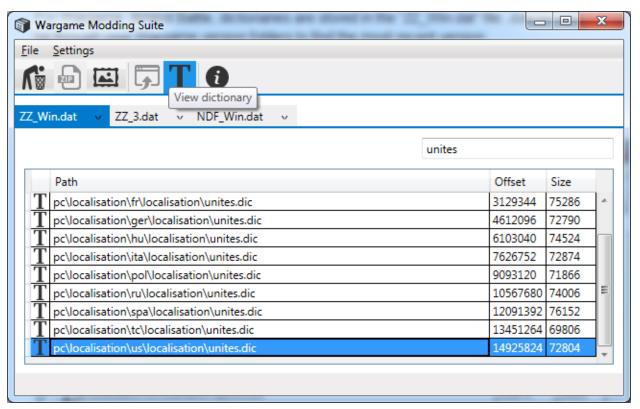
Once you've opened it, a new tab appears, you can see all files that the package contains in the list below. Use the textbox above the list to search for specific files inside the edata package.

## **Dictionary Editor**

The dictionary viewer makes it possible to resolve localisation tokens. It makes it a lot easier to find weapons and units in the Ndfbin editor.

For Wargame: Airland Battle, dictionaries are stored in the "ZZ\_Win.dat" file. Just browse a little bit through your Wargame version folders to find the most recent version.

Dictionaries are marked with the **I** Icon in the Edata File Manager and can be viewed by pressing this button in the Toolbar.

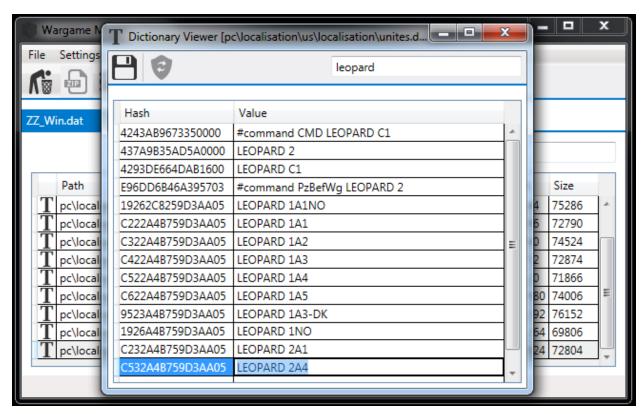


Open a dictionary

The unit and weapon names are stored in the "pc\<countrycode>\localisation\unites.dic" file.

Once you have opened a dictionary file, a dialog appears in which you can search, edit and add localisation entries. You can copy these values (Hash and Value) by double-clicking in the field and pressing *Ctrl* + *C*.

Hint: These values can be used for the built in filter.



Dictionary editor

To add a new dictionary entry go to the bottom of the list and doubleclick into the *Value field*. You can then enter your desired value. Press the *Return key* to commit the changes.

After you have created a new entry with a value, you need to create a localization hash. Do this by selecting the newly created entry and pressing the *button* in the toolbar.

Press the save button after you're done with your changes.

### **Editing textures**

#### Requirements

To edit Textures you need any software which is able to handle \*.dds files. I recommend Adobe Photoshop with the NVIDIA Texture Tools for Adobe Photoshop Plug-in.

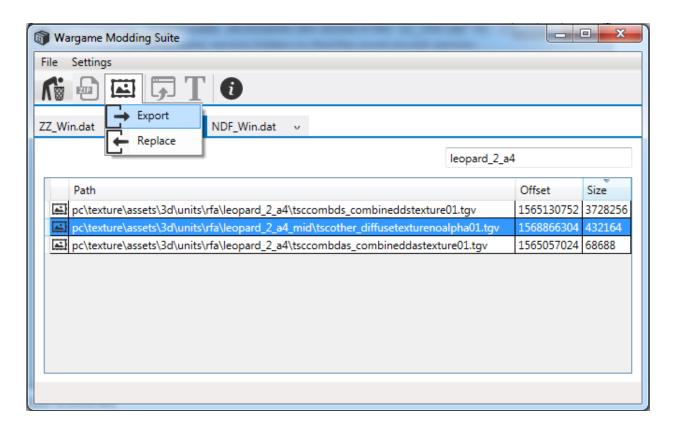
A valid export path must be setted. (Settings->change export path). Keep in mind that you need to have sufficient user rights to save at this location.

#### **Export textures**

For Wargame: Airland Battle, textures are mostly located inside the ZZ\_3.dat file. Remember to create a backup of this one somewhere. This file is about 3 gigabytes big and you have to redownload it entirely if something goes wrong or you just want to revert your changes.

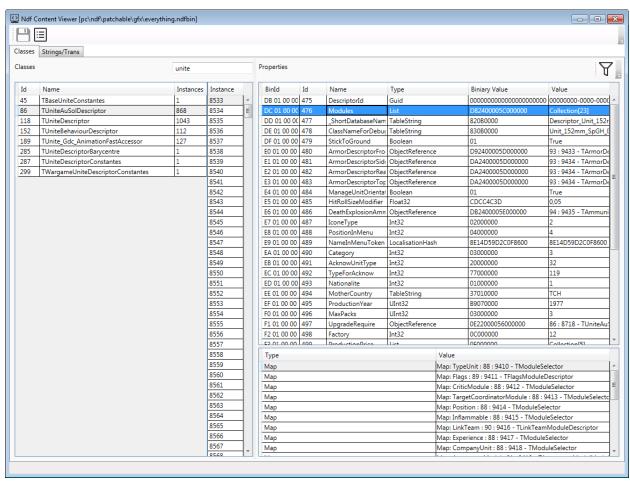
Select the texture to export in the Edata File Manager and press on the button. Now choose "Export". The file will be converted into a \*.dds and is located at your export path.

You can now edit the texture with for instance Adobe Photoshop and reimport it using the *replace command*. Note that this may take a while since the whole ZZ\_3 file has to be rebuild.



### Ndfbin Editor

This feature is probably the largest and most complicated inside the modding suite. It needs to be better documented, sorry.



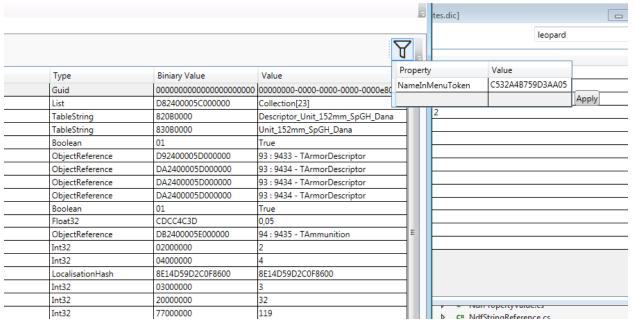
The Ndfbin Editor

#### **Filter**

The filter function allows you to search for object instances by having an unlimited amount of conditions.

To add a condition, you have to select any property the current class owns and a value which fits the objects you are looking for. After you've defined your condition press enter to submit it.

Once you are done with adding conditions, press *Apply* to use the filter on your current class.



Adding filter conditions

### Follow object references

Everytime you see the type "ObjectReference" you can follow this reference by doubleclicking on the row. A new window displaying the referenced instance will appear.

	DE 01 00 00	478	ClassNameForDebug	TableString	830B0000	Unit_152mm_SpGH_Dana	
	DF 01 00 00	479	StickToGround	Boolean	01	True	
	E0 01 00 00	480	ArmorDescriptorFront	ObjectReference	D92400005D000000	93 : 9433 - TArmorDescriptor	
	E1 01 00 00	481	ArmorDescriptorSides	ObjectReference	DA2400005D000000	93 : 9434 - TArmorDescriptor	=
	E2 01 00 00	482	ArmorDescriptorRear	ObjectReference	DA2400005D000000	93 : 9434 - TArmorDescriptor	
ı	E3 01 00 00	483	ArmorDescriptorTop	ObjectReference	DA2400005D000000	93 : 9434 - TArmorDescriptor	
	E4 01 00 00	484	ManageUnitOrientation	Boolean	01	True	
	E5 01 00 00	485	HitRollSizeModifier	Float32	CDCC4C3D	0,05	

