



oStudio 3.0 - Dictionary User Guide

Revision 1.1

November 26, 2015

1. Document history

Version	Date	Changes
1.0	10.11.15	Initial version
1.1	26.11.15	Updated version

2. Table of contents

1.	DOC	CUMENT HISTORY	3
2.	ТАВ	LE OF CONTENTS	5
3.	GET	TING STARTED	7
	3.1. 3.2.	Download & installation My first dictionary project	7 9
4.	TRA	NSLATING MY APPLICATION 1	10
2	I.1. Edit Trar Trar Hidi I.3. I.4. Dea I.5. Visu Trar Upd Link Onti	Overview 1 Common features 1 ing translations 1 inslation search 1 inslation selection and copy 1 ng columns 1 Changing side 1 Translator side 1 Ing with languages 1 Developer side 1 nal Studio projects import 1 nal Studio projects import 1 late or create translation files 2 late Dictionary from Visual Studio projects 2 ed Visual Studio projects management 2 ions 2	LO LO LO LO L1 L1 L2 L3 L4 L6 L7 L9 22 325 77
5.	IMP	ORT & EXPORT	28
6.	ANN	NEX : CONCEPT.INTL BEST PRACTICES 2	29
6	5.1. 5.2. Plug Con	Key naming convention 2 Intl files classification 2 gin translation management 3 cept libraries translation management 3	29 29 31 32

3. Getting started

3.1. Download & installation

If not already installed, oStudio can be found here (<u>www.objectis.ch</u>). Once installed, go to the plugins manager, *Tools -> Plugins (F8)*



If the Dictionary plugin is not in the list of plugins, click on Add.

🏠 Update your plu	gins		
Plugins			
Plugins are manage that has been save l	d from this view. before or the init	You are able to add or remove plugins. Additionally to that, it is possible t al situation.	o restore a previous situation
<mark>∔</mark> ×			
dd Name \	/ersion	Company	
LiveTuning.dll 3	3.0.0.120	Objectis	
ConceptEditor.dll 3	3.0.0.120	Objectis	
MappingEditor.dll3	3.0.0.120	Objectis	
D .			
Restore			
All default installation	on are restored.		
			OK Cancel
	_		

Select the file "Dictionary.dll" from the installation path (Program Files\Objectis\oStudio 3\oStudio - LiveTuning\bin\Plugins) in the "Plugins" folder. Then click open.

Organiser 🔻 Nouveau	u dossier			:= 🕶 🔟 🔞)
	*	Nom	Modifié le	Туре	Tail
Bibliothèques		퉬 Intl	20.08.2015 16:03	Dossier de fichiers	
Documents		ConceptEditor.dll	10.08.2015 18:05	Extension de l'app	
Heures		S Dictionary.dll	10.08.2015 18:05	Extension de l'app	
Musieure		GeneratorModel.dll	10.08.2015 16:55	Extension de l'app	
 Iviusique Desists 		🚳 LiveTuning.dll	10.08.2015 18:05	Extension de l'app	
Subversion		🚳 MappingEditor.dll	10.08.2015 18:05	Extension de l'app	
Vidéos	E	🚳 Ocf.Ads.dll	10.08.2015 15:54	Extension de l'app	
videos		Ocf.Embedded.dll	10.08.2015 15:54	Extension de l'app	
Ordinataur		Ocf.Native.dll	10.08.2015 15:54	Extension de l'app	
		🚳 Ocf.Wcf.dll	10.08.2015 15:54	Extension de l'app	
DATAPART1 (D:)		TSCsScript.dll	10.08.2015 18:05	Extension de l'app	
👝 Backup (F:)	-	•	m		Þ
Nom	du fichier :	Dictionary.dll	- Dil Plug	ins (*.dll) 🔻]

The plugin should now appear in the list.

📸 Upd	late your plu	ugins		
Plugin	s			
h th	lugins are manag hat has been save	ed from this view. before or the initi	You are able to add or remove plugins. Additionally to that, it is p al situation.	possible to restore a previous situation
+ X	(
N	Name	Version	Company	
L 🛃	LiveTuning.dll	3.0.0.120	Objectis	
🖳 🛃 🤇	ConceptEditor.dll	3.0.0.120	Objectis	
2	MappingEditor.dl	13.0.0.120	Objectis	
	Dictionary.dll	3.0.0.120	Objectis	
Restor	e.			
* A	ll default installat	tion are restored.		
				OK Cancel

3.2. My first dictionary project

Create a new project by selecting File -> New -> Project (Ctrl+N)



Select a Dictionary project

😭 Add new	project	_		
Type of project				
Live Tuning	Concept Editor	Dictionary	(Mapping	
Project Name :	Dictionary			
Project Directory	: D:\Projets			
			ОК	Cancel
_				

4. Translating my application

4.1. Overview

When translating an application, there are two sides involved in the process. The developer, who defined the keys and texts in his language and the translator, who will create new languages and translations for each of those texts.

4.2. Common features

Here are the common features to a translator and a developer.

Editing translations

A translation is always composed of the developer's text and the equivalent for each language defined in this project, which you can edit.

Developper	English	Français 💧
T	T	T
Users	Users	Utilisateurs
Rights	Rights	Droits
Creation Data	Creation Data	Création des données
License Creation Data File	License Creation Data File	Création du fichier de données

Translation search

Several filters can be applied to simplify the edition.

Search by word



This filter enables you to search for specific translations by typing characters contained, at the start or at the end or not contained in the translation. It is also possible to look only for the empty translations, which can be useful when updating a translation file.

Sort alphabetically

Translations can be sorted by column alphabetically ascending or descending. To access these different sorting modes click one or more times on the header of the column.

No sort

English	
Ascending	
English	•
Descending	
English	Y

Translation selection and copy

To select multiple translations you can either press Ctrl and select translations separately or press Maj and select the first and last translation of a single column to add all of the items between them to your selection. To select the whole table you can press Ctrl+A. The resulting selection can be copied (Ctrl+C) and pasted (Ctrl+V) in an Excel document.

Studio					
Eile Edit Translator Iools Help	🕅 🔒 5 - Classeur1 - Excel		? 📧	- 🗆	×
🗔 📦 🖶 😝 🔹 🍦	FICHIER ACCUEIL INSERTION MISE EN PAGE FORMULES DONNÉE	S RÉVISIO	ON AFFIC	HAGE	TE►
Home X Occionary X Control of the second se	Coller Coller	ıditionnelle + : de tableau + ,	Cellules Édi	HL ition	
The License has been exported corretty. The License has be The file extension must be one of these · /0\! The file extension	Presse-papiers 🖬 Police 🖬 Style				^
The file extension must be :{0}! The file extension	$\Delta 17 = : \times \int f_r$				~
The file {0} has not been found it will not be loaded. The file {0} has not					+
	A	В	С	D	
The file "{0}" could not be open The file "{0}" could	1 The editor could not be loaded becaused it is using obsolet features				
The editor could not be loaded becaused it is using obsolet The editor could n	 The default subject must be loaded to load subject '(0)' in '(1)' 				
The default subject must be loaded to load subject '{0}' in '{ The default subject					-
The current password you have provided in incorrect. The current password has to be set when using this control. The current parsword has to be set when using this control.	3 The current password you have provided in incorrect.				_
Template must have a ContentControl named : {0} Template must have	4 The current password has to be set when using this control.				
Tab Items Style Tab Items Style	5 Template must have a ContentControl named : {0}				
Tab Items Style Tab Items Style	The Manual Challe				-
Symmetric Sha1 Signed License Symmetric Sha1 Si	6 Tab items style				_
Symmetric Key Symmetric Key	7				_
	8				-
	9				-
	10				_
	11				- 1
	12				_
	13				-
	14				
	Feuil1 (+)				Þ
	prêt 📃 🔠	•		+ 100	%

It is also possible to copy a multi selection, where the selected items follow each others, in another place in the table. For example you can copy items from the developer column to the english column by selecting the cell where you would like to paste the first selected item and pasting the selection (Ctrl+V).

Hiding columns

By doing a right click on the columns header, you can choose which column to show or hide.

		Edit 'English'
found	_	Delete 'English' file {
✓ Developper		Choose Columns: >
🗸 English	-	
🗸 Français	3.	Could not read the xml file {

4.3. Changing side

When opening an existing Dictionary project, you might find yourself in the wrong mode. To change it, go to the Options menu (*Tools -> Options*) and select the *Dictionary* tab.

ostudio		
File Edit Translator Developper	Tools	Help
C Show/Hide solution view	F7	🚽 🔎 🐸 💥
G Options	F4	
D 🔀 Plugins	F8	Jmn

In this tab, under Common options, you can choose between Developer and Translator mode. Click OK to apply your changes.

🛞 Options			X
Skin	Common options		
E Language	Developer options		
Live Tuning	Program : Notepad++		
Concept Editor	Open File : notepad++ \$(filename) -n\$(line) -c\$(column)		
Oictionary			
_		ОК	Cancel

4.4. Translator side

If you work as a translator, you should have a Dictionary project file (.dic) in your possession.

oStudio	
<u>F</u> ile Edit Translator Developper <u>T</u> ools <u>H</u> elp	
🗔 🚺 🖬 🗐 🚱 🛃 🕄 🔀	
🚼 Home 🗙 🎯 Dictionary 🗙	
Translator	Developper
If you want use Dictionnary in translator mode. Please open the project forwarded by your contributor.	If you want use Dictionnary in developper mode. Please create a new project from source code.
Open	Q Import
Info	
f you want more informations to use this plugin, please refer to the	appropriate section on userguide.
	User guide
	and the second se

Click on Open to choose this file and start editing it.

ile Edit Translator <u>T</u> ools <u>H</u> elp		
J 🛃 🖬 🔕 🔂		
🗱 Home 🗙 💽 Dictionary 🗙		
Developper	English	Français
Т	T	Т
Users	Users	Utilisateurs
Rights	Rights	Droits
Creation Data	Creation Data	Création des données
License Creation Data File	License Creation Data File	Création du fichier de données
Signature	Signature	Signature
Symmetric Key	Symmetric Key	Clé symétrique
Creation Data	Creation Data	Création des données
License Creation Data File	License Creation Data File	Création du fichier de données
Export and Test	Export and Test	Exporter et Valider
Save to file and test validity	Save to file and test validity	Sauver sur fichier de données et vérification de la validité
Value is not a valid integer number	Value is not a valid integer number	La valeur n'est pas un nombre entier
Skins	Skins	Thèmes
Selecting a skin will change the view of the whole application. Colors	Selecting a skin will change the view of the whole application. Colors	Le choix d'un skin modifie le design de toute l'application. Il est auss
Skin selector	Skin selector	Sélection du thème
Skin Color selector	Skin Color selector	Sélection de la couleur
Right	Right	Droit
Rights	Rights	Droits
Skin	Skin	Thème

Dealing with languages

Add a language

To add a new language you can either click on *Add* or access the *Translator* menu and press on *New Language*.



Edit a language

If you would like to edit an existing language you can do so by accessing the following menu Translator -> Language to edit -> Edit.

e Edit	Translator	Tools	н	elp	
New La	nguage			Q	-
English		•	Z	Edit	
Français	5	•	1	Clear	

In the next screen you can change the name and code of the language.

Edit language	2
New Languages	New Languages Create new language for your current projet. Intl file will be generate for each ones. Name : English Code : EN
	Previous Next 🐋 Cancel

Then you can either leave the language untouched, fill the edited language with the developer language or choose an existing translation file to fill the edited language.

Edit languag	e
	Fill language
	You can auto fill your new languages. Choose below between all the possibilites.
Fill language	Leave the language untouched.
	Use the developper language to fill the new language.
	Use existing intl file to fill the new language.
	Previous Next 🐋 Cancel

4.5. Developer side

The developer side is here to simplify the creation of translations files based on the source code of the application.

If you work as a developer and would like to set up the internationalization in your application click on *Import*.

OStudio File Edit Translator	Developper <u>I</u> ools <u>H</u> elp		
100 C	Translator	Developper	
	If you want use Dictionnary in translator mode. Please open the project forwarded by your contributor.	If you want use Dictionnary in developper mode. Please create a new project from source code.	
	Copen	Import	
	Info		
	If you want more informations to use this plugin, please refer to the	appropriate section on userguide.	
		Jser guide	

Visual Studio projects import

If you would like to add Visual Studio projects to an existing Dictionary project click on the following button or go to the following menu *Developer -> Import from project*.

Translator	Developper	Tools	Help				
t from projec	:t		+		2	5	×
to intl folde	r						
h Projects		tion	_	_	_		
rojects		ect	_	Locati	on		Devel
	to intl folde h Projects	to intl folder h Projects	to intl folder h Projects ojects ect Location	to intl folder h Projects ojects ect Location			

To import Visual Studio projects to the Dictionary, you can either choose a project or a solution, the projects contained in it will be detected automatically.

	Import Visual Studio projects	
import Visual Studio projects	Select the visual studio projects you wa	nt to import on the current dictionary.
Assign developer language	File path :	D:\Projets\Concept Trunk\Platform\Concept.sln
	Projects found	
	Concept.Model	
	Concept.Utils	
	Concept.Utils.Wpf	
	Concept.Components.Wpf	
	<u></u>	

Then you can select the projects you which to include in this Dictionary. For example it is better to separate the main projects of the application from the plugins to keep modularity.

Click *Next* to confirm your choice. Then define the developer language, by specifying a name and a code. This language will be automatically created.

	Assign developer language
nport Visual Studio projects	Select the language use on source files to define the main language
ssign developer language	Name : English
	Code: EN

The next screen appears if existing translation files have been found throughout the projects.

You can choose which translation files you would like to use in the current Dictionary project.

If files containing translations for the developer language have been found, you can choose between the following importation behaviours:

- Only use translations on intl files: the exact content of the existing translation files will be copied in the current Dictionary.
- ✓ Only use translations on source codes: the content of the existing translation files will be ignored, the translations defined in source codes will be used to fill the current Dictionary.
- ✓ Only use translations on intl files and complete with source codes: the content of the existing translation files will be used to fill the current Dictionary, missing translations will be filled with the source codes translations.

	Existing intl files					
nport Visual Studio projects	Some projects have intl files, please	e select which files you want to use to fill the translations.				
sign developer language	D:\Projets\Concept Trunk\Platf	orm\Concept.Model\Intl\Concept.Model.EN.intl				
	D:\Projets\Concept Trunk\Platf	orm\Concept.Model\Intl\Concept.Model.FR.intl				
	D:\Projets\Concept Trunk\Platf	D:\Projets\Concept Trunk\Platform\Concept.Utils\Intl\Concept.Utils.EN.intl				
	D:\Projets\Concept Trunk\Platform\Concept.Utils\Intl\Concept.Utils.FR.intl					
	Image: State					
	D:\Projets\Concept Trunk\Platform\Concept.Model.WPF\Intl\Concept.Model.Wpf.FR.intl					
	Main language					
	Some intl files have been found for for the imporation.	or the main language specified previously. Please select the appropriated behavi	iour			
	Main language importation behaviour :	Only use translations on intl files and complete with source codes	•			
		Only use translations on intl files				
		Only use translations on source codes				
		Only use translations on intlifiles and complete with source codes				

If the existing translation files contained a language not yet defined in the current Dictionary, you will be asked to define the name corresponding to the existing language code.

	New Language
mport Visual Studio projects	New language have been found on your current intl files. Please define the corresponding name.
ssign developer language	FR : Français

You can then press *Finish* to validate the import.

Translations management

Once you have imported your Visual Studio projects, the following screen will appear.

la sulla successione o					
lie Edit Translator Di	evelopper <u>T</u> ools <u>H</u> elp				
🗟 🖌 🖌	8 😟 🕂	2 🗳 🗟	\times		
😫 Home 🗙 🏾 🍙 Dictional	ny 🗙				
Drag a column header and drop it	here to group by that column				
Key	Project	Location	Developper	English	Français
T	Т	Т	Т	T	T
Concept.Utils.Wpf.IntegerEdit	Concept.Utils.Wpf	IntegerEditor.cs	Value is not a valid integer nu	Value is not a valid integer n	La valeur n'est pas un nombr
Concept.Components.Categc	Concept.Components	RightRepository.cs	Concept	Concept	Concept
Concept.Components.RightsF	Concept.Components	RightRepository.cs	Rights Repository	Rights Repository	Dépôt de droits
Concept.Utils.Wpf.ConceptSk	Concept.Utils.Wpf	ConceptSkinsView.xaml	Skins	Skins	Thèmes
Concept.Components.Wpf.Cc	Concept.Components.Wpf	ConceptLoginView.cs	Login	Login	Connexion
Concept.Utils.Wpf.ConceptSk	Concept.Utils.Wpf	ConceptSkinsView.xaml	Selecting a skin will change tl	Selecting a skin will change tl	Le choix d'un skin modifie le
Concept.Utils.Wpf.ConceptSk	Concept.Utils.Wpf	ConceptSkinsView.xaml	Skin selector	Skin selector	Sélection du thème
Concept.Utils.Wpf.ConceptSk	Concept.Utils.Wpf	ConceptSkinsView.xaml	Skin Color selector	Skin Color selector	Sélection de la couleur
Concept.Components.Wpf.Lic	Concept.Components.Wpf	LicenseParameterSignedFileS	Signature	Signature	Signature
Concept.Components.Wpf.Lic	Concept.Components.Wpf	LicenseParameterSignedFileS	Symmetric Key	Symmetric Key	Clé symétrique
Concept.Components.Wpf.Lic	Concept.Components.Wpf	LicenseParameterSignedFileS	Creation Data	Creation Data	Création des données
Concept.Components.Wpf.Lic	Concept.Components.Wpf	LicenseParameterSignedFileS	License Creation Data File	License Creation Data File	Création du fichier de donnée
Concept.Components.Wpf.Lic	Concept.Components.Wpf	LicenseParameterSignedFileS	Export and Test	Export and Test	Exporter et Valider
Concept.Components.Wpf.Lic	Concept.Components.Wpf	LicenseParameterSignedFileS	Save to file and test validity	Save to file and test validity	Sauver sur fichier de données
Concept.Model.Wpf.Concept	Concept.Model.Wpf	ConceptValidationsRules.cs	This name could not be empt	This name could not be empt	Le nom ne peut être vide
Concept.Model.Wpf.Concept	Concept.Model.Wpf	ConceptValidationsRules.cs	This name has a bad format.	This name has a bad format.	Le nom n'est pas au bon forn
Concept.Model.Wpf.Concept	Concept.Model.Wpf	ConceptValidationsRules.cs	This name already exist in the	This name already exist in the	Ce nom est déjà existant
Concept.Utils.Wpf.ConceptSk	Concept.Utils.Wpf	ConceptSkinsViewUserContro	Skin	Skin	Thème
	o			China	Thanan

For each translation the associated key project and location is displayed. For further information about the sorting, searching and selection possibilities go to the chapters 5.2-5.4.

Advanced possibilities

To have a better overview of the translations, the columns headers *Key*, *Project* and *Location* can be dragged in the table header to obtain a hierarchical display of the data as shown below.

		Project		Location	<u> </u>	Develop	oper	English	T	Français	
p	t.Utils.Wpf.IntegerEd	it Concept.U	tils.Wpf	IntegerEc	litor.cs	Value is	not a valid integer nı	Value is not	a valid integer nı	La valeur n'est pa	is un nombr
ire	oup Header Pro	oject 🕨	Location				·	. .	I	-	
	Key		Project		Location		Developper	Engl	ish	Français	
		T		T		T		Т		Т	1
	Concept.Componen										
	 BaseLicense.cs 										
	Concept.Comp	onents.Basel	Concept.Compor	ients	BaseLicense.cs		License	Lice	nse	Licence	
	✓ BaseLicensePar	ameter.cs									
	✓ BaseUser.cs										
	✓ BaseUserGroup	.cs									
	 ConceptUser.cs 										
	✓ ConceptUserGr	oup.cs									
	✓ HashPassword.	s									
	✓ LicenseParamet	erSignedFile/	Asymmetric.cs								
	✓ LicenseParamet	erSignedFile	SymmetricSha1.cs								
	 Licenses.cs 										
	✓ Right.cs										
	 RightRepositor 	/.cs									
	 ValidationChect 	k.cs									
	✓ ValidationChec	kDateInterval	.cs								
	✓ ValidationChec	kInfosClient.c	s								
	Concept.Componen	ts.Wpf									

To come back to the flat display, click on the cross of each group in the group header.

Group I	leader	Project	► I	Location		
	Key			Project		
			T			Т
	_	_			_	

On a left click on a translation row you have access to the following functionalities.



- Copy to clipboard: Copy the key to the clipboard
- Show key in file: Open the source file containing the key definition
- Show in File Explorer: Open the folder where the source file containing the key definition is located.

Update or create translation files

Once the modifications on the translations are done, click on the following button or go to the following menu *Developer -> Export to intl folder* to update or create the translation files of each imported Visual Studio projects.



Update Dictionary from Visual Studio projects

If your Visual Studio projects have changed since the last time you updated your Dictionary, click on the following button or go to the following menu *Developer -> Refresh Projects* to update translations based on source codes.

oStu	odio						
File	Edit Translator	Developper	Tools	Help			
2	Import from proje	ect	0	+	2	* 🔄	×
۲ 🌥	Export to intl fold	er					
6	Refresh Projects		tion	_	_		
×	Edit Projects		ect		Location		Deve

On the next screen, select the project(s) you would like to update from, then press Next.

Refresh keys	i.
Selection	Selection
Selection	Choose the files to be updated.
Old Keys	Concept.Utils
New Keys	Concept.Utils.Wpf Concept.Components.Wpf Concept.Components
	Previous Next 🐋 Cancel

The following screen shows keys no longer used in the Visual Studio projects, you can select the ones you would like to remove from the current Dictionary.

	Old Keys	
Selection	This are old keys no more present on your project. Select which keys you want to remove.	
Old Keys	Concept.Components.Wpf.EditPassword.CurrentPassword Current password Concept.Components.Wpf.EditPassword.Update Update	2 2
New Keys		

This screen shows keys contained in the Visual Studio projects but not in this Dictionary. Select the keys you would like to add to the current Dictionary. Press *Finish* to end the procedure.

	New Keys	
Selection	This are new keys present on your project. You can import them if you want a full translation of your application	on.
Old Keys New Keys	Concept.Components.Wpf.ConceptLoginView.NavigationControl.DisplayMenuTitle Login Concept.Components.Wpf.ConceptLoginView.NavigationControl.SecondaryMenuTitle Login	
	Previous Finish	Cancel

Linked Visual Studio projects management

Information on the Visual Studio projects imported previously is kept in the Dictionary project. In case you have been sent a Dictionary project from somebody else, the information about the imported Visual Studio projects might be wrong. To edit linked Visual Studio projects click on the following button or go to the following menu *Developer -> Edit Projects*.

oStu	vdio							
File	Edit Translator	Developper	Tools	Help				
2	Import from proje	ect		+		2	5	X
۲ 🌥	🖄 Export to intl folder							
a	Refresh Projects		ov that col	umn	_	_	_	
×	Edit Projects				Location	_	_	Developp

On the left of the following screen you can see the linked Visual Studio project. From this list you can either remove, refresh or open the selected project in the file explorer. The right part of the screen tells you when the last update of this project was done and where the project and linked translation file are located.

🗟 🖄 💥	Concept.Components
Concept.Components Last Update : vendredi 6 novembre 2015 - 15:40	Details
Last Update : vendredi 6 novembre 2015 - 15:40 Concept.Components.Wpf Last Update : vendredi 6 novembre 2015 - 15:58 Concept.Model.Wpf Last Update : vendredi 6 novembre 2015 - 15:40 Concept.Utils Last Update : vendredi 6 novembre 2015 - 15:40 Concept.Utils.Wpf Last Update : vendredi 6 novembre 2015 - 15:40	Last update : 06.11.2015 Intl folder : Intl Filename : D:\Projets\Concept Trunk\Platform\Concept.Components\Concept.Components.csproj Files Files CommonAssembliesInfo.cs ConceptHmiProductInfo.cs
	Image: ConceptComponentController.cs Image: ConceptController.cs Image: Controller.cs Image: Controller.cs Image: Controller.cs Image: Controller.cs Image: Controller.cs Image: Controller.cs Image: Controller.cs
	Close

If the project does not have a linked translation file yet the following icon will appear next to the concerned project.



The following screen shows what can happen if information about the linked Visual Studio projects is wrong.



In this case, change the file path to the location of your projects.

Options

To access to developer options for Dictionary projects go to the following menu *Tools-* > *Options* and select *Dictionary*.

oStudio		
File Edit Translator Developper	Tools	Help
Show/Hide solution view	F7	🚽 🔎 🐸 💥
G Options	F4	
D 🔀 Plugins	F8	umn

Under « developer options » you can choose which program to use when requesting to show a key in its file (Chapter 6.2 Advanced possibilities).

Options		
Skin	Common options	
	Developper mode : Developper	•
Real Language	Developer options	
Live Tuning	Program : Notenad++	
	Open File : notepad++ \$(filename) -n\$(line) -c\$(column)	i
Concept Editor		
Oictionary		
	ОК	Cancel
11		_

5. Import & Export

When deploying an application it can be useful to regroup the translations in a single file. To do so, use the *Import / Export* functions available in the following menus *Edit -> Import* from & *Edit -> Export* to you can choose between .csv and .intl formats.



Be aware that regrouping translations into one single file may not be appropriate if the application can be extended with plugins. In this case, you may use the default Intl files classification explained further in the document (6.2).

6. Annex : *Concept.Intl* best practices

When developing an application with Concept, consider using translatable texts (Intl) from the very beginning.

Here are a few other tips on how to manage internationalization efficiently in your C#/WPF projects using Concept.

6.1. Key naming convention

When declaring a new translation in C#, it is important to define a unique key using a fixed naming convention, below is the one we recommend.

Namespace.Class.TextDefinition

For common translations such as validation texts like "Ok" and "Cancel", we recommend creating these once in a static class.

6.2. Intl files classification

The oStudio plugin Dictionary generates one translation file for each language and one additional file referencing them. Below is an example of such a file.



In a Visual Studio solution, each project has an Intl folder containing the « .intl » files generated by the oStudio plugin Dictionary. In the *Properties* tab of Visual Studio set *Copy* to Output Directory to Copy if newer for each of these files.

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This way each project of the solution will have their translation files copied in a folder "Intl" in the application's output directory.

The startup project of your solution must contain an .intl file containing references to every translation files necessary for the application. This file also has to be configured as Copy if newer in its properties, as shown below.

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It is important that this file be copied next to the executable of the application. Below is an example of the content of this file.

1	#Language English=EN
2	#Language Francais=FR
3	#Language Default=EN
4	
5	<pre>#import .\Intl\Concept.intl</pre>
6	<pre>#import .\Intl\GeneratorsLiveClientApp.intl</pre>
7	<pre>#import .\Intl\Ocf.Wcf.intl</pre>

The first three lines gives the language name corresponding to each language code and the default language of the application. The next lines describe the path to the main translation file (the file referencing every languages files) of each project contained in this application.

Plugin translation management

A plugin project has to have the same translation structure than a normal project that is a folder named "Intl" containing the generated translation files with their properties set to *Copy if newer*.

Concept libraries translation management

Concept Hmi libraries come with an Intl folder. The content of this folder has to be added with the other translation files of the application. To do so, you have two possibilities.

The first one is to add these files in the folder Intl of the startup project and copy them to the binaries folder (Copy if newer setting).

The second one is to add a post-build event command in the startup project properties to directly copy the content of the Intl folder located next to the Concept Hmi libraries. Here's an example of such a command.

xcopy /y /d "\$(ProjectDir)Libraries\Intl" "\$(ProjectDir)\$(OutDir)\Intl"