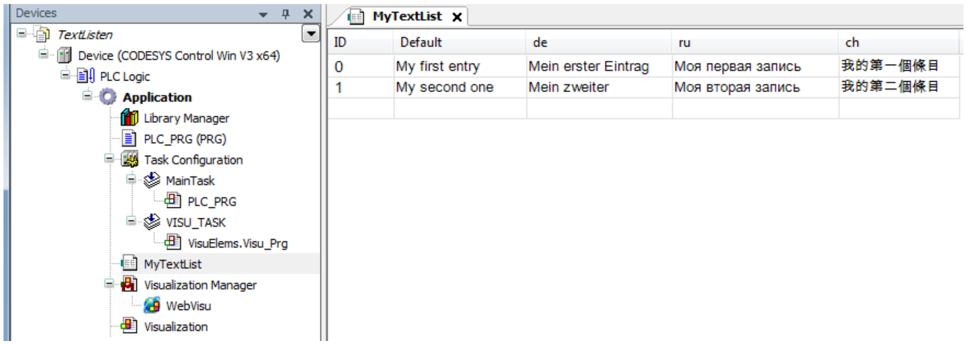
Access to Text Lists from the IEC Code

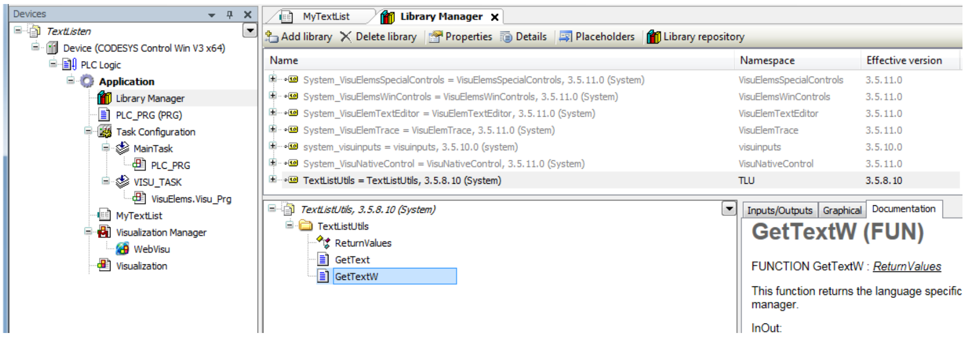
> ⓘ The requirement for programmatic access to text lists is that a visualization is present in the project.

- Example of a text list:



ID	Default	de	ru	ch
0	My first entry	Mein erster Eintrag	Моя первая запись	我的第一個條目
1	My second one	Mein zweiter	Моя вторая запись	我的第二個條目

- Open the *Library Manager* and add the *TextListUtils* library.



Name	Namespace	Effective version
System_VisuElemsSpecialControls = VisuElemsSpecialControls, 3.5.11.0 (System)	VisuElemsSpecialControls	3.5.11.0
System_VisuElemsWinControls = VisuElemsWinControls, 3.5.11.0 (System)	VisuElemsWinControls	3.5.11.0
System_VisuElemTextEditor = VisuElemTextEditor, 3.5.11.0 (System)	VisuElemTextEditor	3.5.11.0
System_VisuElemTrace = VisuElemTrace, 3.5.11.0 (System)	VisuElemTrace	3.5.11.0
system_visuinputs = visuinputs, 3.5.10.0 (system)	visuinputs	3.5.10.0
System_VisuNativeControl = VisuNativeControl, 3.5.11.0 (System)	VisuNativeControl	3.5.11.0
TextListUtils = TextListUtils, 3.5.8.10 (System)	TLU	3.5.8.10

TextListUtils, 3.5.8.10 (System)
TextListUtils
ReturnValues
GetText
GetTextW

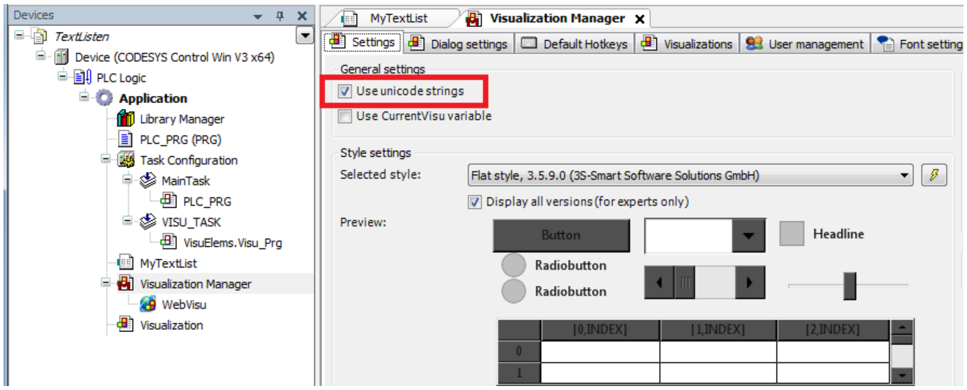
GetTextW (FUN)

FUNCTION GetTextW : *ReturnValues*

This function returns the language specific
manager.

InOut:

Both of the functions **GetText** and **GetTextW** are differentiated only by the data type that is processed.
If Unicode characters, such as Russian or Chinese, are used in the project, then you have to work with the **WSTRING** type.
Please note that the use of Unicode characters has to be activated explicitly in the visualization manager



General settings

☑ Use unicode strings

□ Use CurrentVisu variable

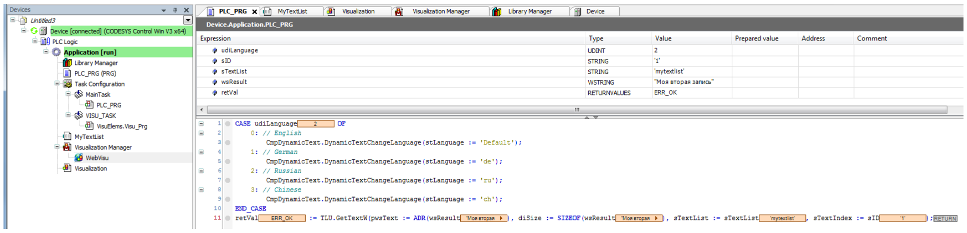
Style settings

Selected style: Flat style, 3.5.9.0 (3S-Smart Software Solutions GmbH)

☑ Display all versions (for experts only)

- The language first has to be determined in the code before the text is read.

This is done here by means of the variable *udiLanguage* which can be changed from the visu, for example by means of a combo box.



Device.Application.PLC_PRG

Expression	Type	Value	Prepared value	Address	Comment
udiLanguage	UDINT	2			
sID	STRING	'1'			
sTextList	STRING	'mytextlist'			
wsResult	WSTRING	"Моя вторая запись"			
retVal	RETURNVALUES	ERR_OK			

```
CASE udiLanguage 2 OF
    0: // English
        CmpDynamicText.DynamicTextChangeLanguage(stLanguage := 'Default');
    1: // German
        CmpDynamicText.DynamicTextChangeLanguage(stLanguage := 'de');
    2: // Russian
        CmpDynamicText.DynamicTextChangeLanguage(stLanguage := 'ru');
    3: // Chinese
        CmpDynamicText.DynamicTextChangeLanguage(stLanguage := 'ch');
END_CASE
retVal ERR_OK := TLU.GetTextW(pwsText := ADR(wsResult "Моя вторая ), diSize := SIZEOF(wsResult "Моя вторая ), sTextList := sTextList 'mytextlist' , sTextIndex := sID '1' );RETURN
```