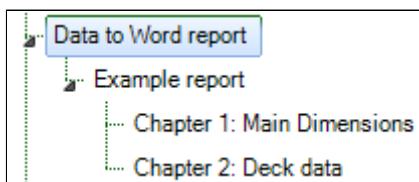


# Data to Word report

- Create a new class: Word report
- Include the following entities:

|                            |                              |                     |
|----------------------------|------------------------------|---------------------|
| Example report             | child of Data to Word report | Singular obligatory |
| Chapter 1: Main Dimensions | child of Example report      | Singular obligatory |
| Chapter 2: Deck data       | child of Example report      | Singular obligatory |



In entity Example report, the main document will be created, which includes the separate documents of the entities Chapter 1: Main Dimensions and Chapter 2: Deck data.

- Create the following parameters in the Knowledge Browser:

| Parameter name    | Dimension | Determined by                 | Reference  | In Class    |
|-------------------|-----------|-------------------------------|--|-------------|
| Report_document\$ | [\$]      | USL: User of System /function | Report document  | Word report |
| Word_file_name\$  | [\$]      | USL: User of System /function | Name of Word file  | Word report |
| Document_Tag\$    | [\$]      | USL: User of System /function | Document tag   | Word report |
| TableStyle\$      | [\$]      | VR: User only                 | Word table style information<br><br>Example:<br>ParameterBold:=True,<br>ParameterBackColor:=wdColorBlack,<br>Font:=Arial 8.5<br>OutsideBorder:=wdLineStyleSingle wdLineWidth100pt wdColorAutomatic<br>InsideGrid:=wdLineStyleSingle wdLineWidth050pt wdColorAutomatic<br>CaseNumbers:=True<br>TableAlignment:=wdAlignRowCenter | Word report |
| VBA_Macro\$       | [\$]      | USL: User of System /function | VBA Macro that is executed by MS Word  | Word report |
| Mode              | [BLN]     | VR: User only                 | Mode for creating a VBA table macro by TELITAB2WORD() function.<br>0<EQ>Saves as WordMacro_TimeStamp_.bas on working directory and returns file name<br>1<EQ>Returns the complete VBA macro text<br><br>If Mode=1 is selected for manipulation by the knowledge engineer, it should be save using a PUT\$() function           | Word report |
| Transposed        | [BLN]     | VR: User only                 | Orientation of Word table<br>0<EQ>Parameters per column<br>1<EQ>Parameter per row  | Word report |

- Include the following parameters in entity Chapter 1: Main Dimensions: Loa, Lpp, Boa, Dm, Volume, Document\_Tag\$, Report\_document\$ and Word\_file\_name\$.
- Localize ("instantiate") parameter Volume and remove **@MODIFY** because you do not want to allow this here.
- Create the following relations in entity Chapter 1: Main Dimensions:

Loa = ENTITY#(xx).Loa where "xx" is the value of QEntityID of entity Main Dimensions.

Lpp = ENTITY#(xx).Lpp where "xx" is the value of QEntityID of entity Main Dimensions.

Boa = ENTITY#(xx).Boa where "xx" is the value of QEntityID of entity Main Dimensions.

Dm = ENTITY#(xx).Dm where "xx" is the value of QEntityID of entity Main Dimensions.

Volume = ENTITY#(xx).Volume where "xx" is the value of QEntityID of entity Hydrostatics.

```

Document_Tag$ = "#" + Report_document$ + "#"
Word_file_name$ = "main_dimensions_" + STR$(TIME(0)) + ".doc"
Report_document$ = WINWORD$ Tutorial_taxonomy_maindimensions.rtf(Word_file_name$, 0, Boa, Dm, Loa, Lpp,
Volume)

```

- To show computed values set attribute **@SHOW** on QEntityData.

In general, the function **WINWORD\$** opens and creates an RTF document, saves it as Word document and returns the name of the document. Normally, you have to create an RTF document and store it in the current applications directory (either of the knowledge base, located in Kbs\<KnowledgeBaseName>\Applic, or the general Applic directory in My Knowledge).

We have created a multi level approach with one main document and several sub-documents. A time stamp is included in the filenames. See the wiki for a detailed description of the functions **WINWORD\$** and **TIME()**.

For the second report chapter entity, do about the same as for the first chapter:

- Include the following parameters in entity Chapter 2: Deck data: Deck\_data#, Document\_Tag\$, Report\_document\$, Word\_file\_name, Mode, TableStyle\$, Transposed and VBA\_Macro\$.
- Create the following relations in entity Chapter 2: Deck data:

```

Deck_data# = ENTITY#(xx).Deck_data# where "xx" is the value of QEntityID of entity Decks.

Mode = 0 (0<EQ>Saves as WordMacro_TimeStamp_bas on working directory and returns file name)

Transposed = 0 (0<EQ>Parameters per column)

Document_Tag$ = "#" + Report_document$ + "#"

Word_file_name$ = "deck_data_" + STR$(TIME(0)) + ".doc"

Report_document$ = WINWORD$ Tutorial_deck_data.rtf(Word_file_name$, 0, VBA_Macro$)

VBA_Macro$ = TELITAB2WORD$(Deck_data#, 1, TableStyle$, Transposed, Mode)

```

- To show computed values set attribute **@SHOW** on QEntityData.

The **TELITAB2WORD\$** function returns a MS Word macro to create a table in Word based on a given Telitab set, in this case Telitab "Deck\_data#". See the wiki for a detailed description of **TELITAB2WORD\$** function.

Parameter TableStyle\$ contains the Word table style information.

- Create the relation as shown below. See the wiki for a detailed description of **TEXTITEM\$()** function.

```
TableStyle$ = TEXTITEM$(1)
```

Expression Data:

```

TEXTITEM1=
| Formatted:=True
ParameterBold:=True,
ParameterBackColor:=wdColorGray25,
Font:=Arial 8.5
OutsideBorder:=wdLineStyleSingle wdLineWidth100pt wdColorAutomatic
InsideGrid:=wdLineStyleSingle wdLineWidth050pt wdColorAutomatic
CaseNumbers:=True
TableAlignment:=wdAlignRowLeft |

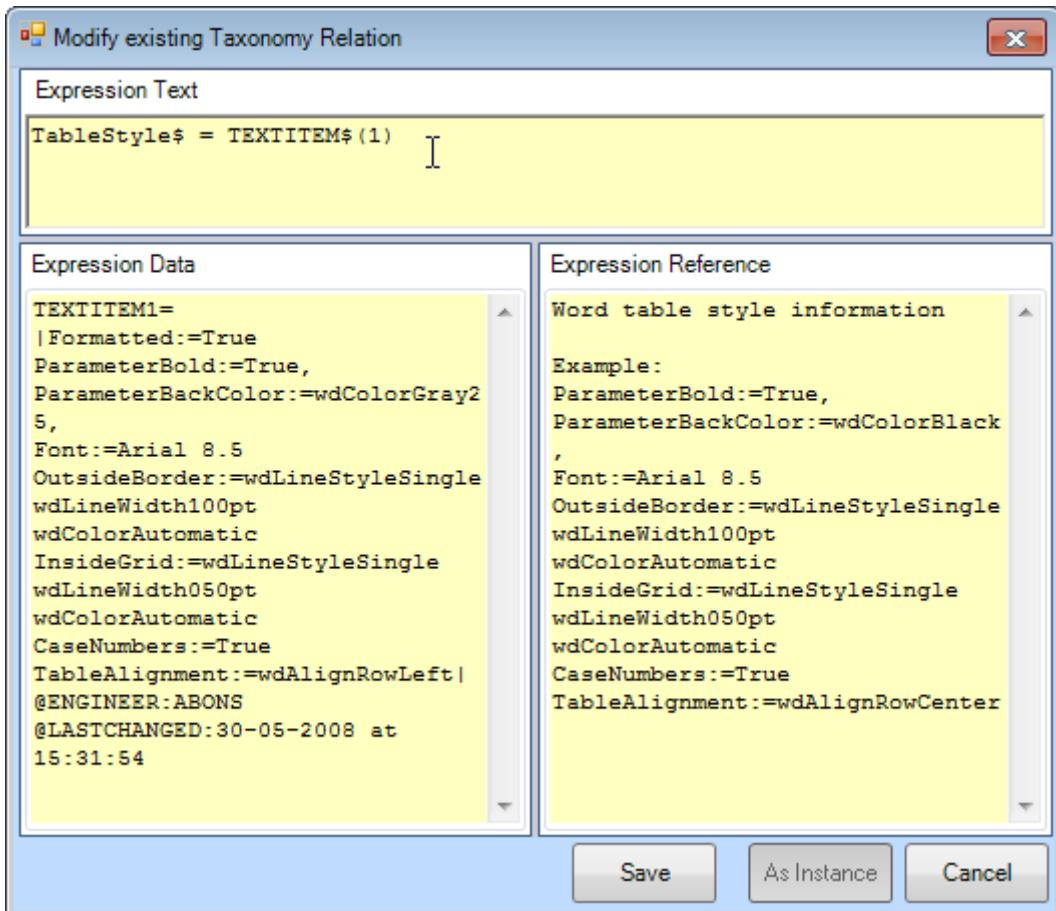
```

Expression Reference:

```
Word table style information
```

Example:

```
ParameterBold:=True,  
ParameterBackColor:=wdColorBlack,  
Font:=Arial 8.5  
OutsideBorder:=wdLineStyleSingle wdLineWidth100pt wdColorAutomatic  
InsideGrid:=wdLineStyleSingle wdLineWidth050pt wdColorAutomatic  
CaseNumbers:=True  
TableAlignment:=wdAlignRowCenter
```



Finally on the top level we make the overall report:

- Include the following parameters in entity Example report: Report\_document\$ and Word\_file\_name\$.

**TODO:** ----

You have to modify the total report **report.rtf** in order to let the overall summary report do its work.

In the template of the total report **report.rtf** we added #ENTITY#(xx).Document\_Tag\$#. This is the reference to the parameters Document\_Tag\$# in the relevant Entities. You have to check whether the QEntityID of the two references in the template are correct. If you modify the RTF document, please remember to check it in Quaestor using the Tools>RTF Template Check... option.

----

- Finally, create the following relations in entity Example\_report:

```
Word_file_name$ = "Report_" + STR$(TIME(0)) + ".doc"
```

```
Report_document$ = WINWORD$ Report.rtf(Word_file_name$, 0, ENTITY#(xx).Document_Tag$, ENTITY#(xxx).Document_Tag$) where "xx" is the value of QEntityID of entity Chapter 1: Main Dimensions and "xxx" of entity Chapter 2: Deck data.
```

- To show computed values set attribute @SHOW on QEntityData.

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