

Data to Excel

The main dimensions and a table of deck data will be written to an Excel file. In here, the total deck area will be calculated and the result will be sent back to Quaestor in the parameter Total_deck_area.

- First, store the Excel file **Example.xls** in the current applications directory (either of the knowledge base, located in Kbs_<KnowledgeBaseName>\Applic, or the general Applic directory in My Knowledge).
- Create the following parameters in the **Knowledge Browser**:

Parameter name	Dimension	Determined by	Reference	In Class
Data_to_excel\$	[\$]	USL: User of System/function	Data written to Excel sheet	Excel
File_name_Excel\$	[\$]	USL: User of System/function	Excel file name	Excel
Total_deck_area	[m^2]	USL: User of System/function	Total deck area calculated by Excel	Excel

- Include the following parameters in entity Data to Excel: Loa, Lpp, Boa, Dm, Data_to_excel\$, Deck_data#, File_name_Excel\$ and Total_deck_area.
- Create the following relations in Entity **"Data to Excel"**:

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

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

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

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

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

File_name_Excel\$ = "Deck_data_" + STR\$(TIME(0)) + ".xls"

Total_deck_area = Data_to_excel\$.Total_deck_area

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

Parameter Data_to_Excel\$ contains the EXCEL#() function. The EXCEL#() function returns the result of an EXCEL spreadsheet calculation in TeLiTab format. See the wiki for a detailed description of EXCEL#() function.

- Create the relation as shown below.

Data_to_excel\$ = EXCEL#(1,"NullString",File_name_Excel\$,"NullString",TEXTITEM\$(1),TEXTITEM\$(2),Deck_data#,Loa, Lpp, Boa, Dm)

Expression Data:

```
@NOCALC
TEXTITEM1=
|5
"Loa"                "Deck data.Loa"
"Lpp"                "Deck data.Lpp"
"Boa"                "Deck data.Boa"
"Dm"                "Deck data.Dm"
"Deck_data#"
{
6
"Name$"              "Deck data.Name of deck(2)"
"Deck_function$"      "Deck data.Function(3)"
"Z"                  "Deck data.Height [m](4)"
"X_aft"              "Deck data.Aft position [m](5)"
"X_front"            "Deck data.Front position [m](6)"
"Area"               "Deck data.Area [m^2](7)"
}
|
TEXTITEM2=
|1
"Total_deck_area"    "Deck data.Totaldeckarea"
```

Modify existing Taxonomy Relation

Expression Text

Data_to_excel\$ = EXCEL#(1,"NullString",File_name_Excel\$,"NullString",TEXTITEM\$(1),TEXTITEM\$(2),Deck_data#, Loa, Lpp, Boa,

Expression Data

```

@NOCALC

TEXTITEM1=
|5
"Loa"                "Deck data.Loa"
"Lpp"                "Deck data.Lpp"
"Boa"                "Deck data.Boa"
"Dm"                 "Deck data.Dm"
"Deck_data#"
{
6
"Name$"              "Deck data.Name of deck(2)"
"Deck_function$"     "Deck data.Function(3)"
"Z"                  "Deck data.Height [m] (4)"
"X_aft"              "Deck data.Aft position [m] (5)"
"X_front"            "Deck data.Front position [m] (6)"
"Area"               "Deck data.Area [m^2] (7)"
}
|

TEXTITEM2=
|1
"Total_deck_area"    "Deck data.Totaldeckarea"

|@QUAESTORVERSION:2.42.0.6/25/2014 10:48:13 AM
@LASTCHANGED:07-14-2014 at 09:56:31
          
```

Expression Reference

Save

As Instance

Can

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