

Prerequisite

- ➤ Use Workshop-VM / Workshop-Computer follow the instructions of the Boarding Pass
- Additional Material inside the [WORKSHOP] Folder



Visual Studio Code

https://code.visualstudio.com



Competence Team DevTech

Microsoft AL

Agenda

TBD

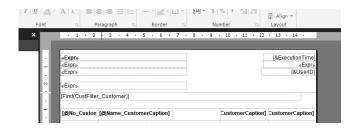


Introducing

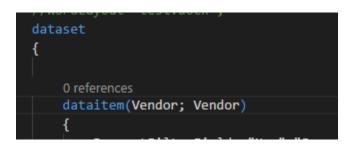
```
report 50100 "Vendor - List V2"

{
    CaptionML=ENU='Vendor - List',
    DEU='Kreditor - Liste';
    UsageCategory = Lists;
```

Report Object



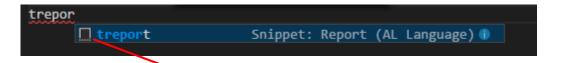
Layout



Dataset

Request Page

- > Consists of
 - > Properties
 - Dataset
 - > Request Page
 - > Trigger on report level
 - Vars
- > Default template "treport"



```
0 reterences
report 50201 MyFirstALReport
    dataset
        0 references
        dataitem(DataItemName; SourceTableName)
            column(ColumnName; SourceFieldName)
    0 references | 0 references
    requestpage
        layout
            0 references
            area(content)
                 0 references
                 group(GroupName)
```

- **>** Properties
 - > Same as in C/AL
 - > Some new properties
 - UsageCategory
 - · RDLCLayout
 - WordLayout
 - · etc..

```
UsageCategory =
RDLCLayout='.\te ▶ Administration
                ✗ Documents
                ℱ History
 //WordLayout='te № Lists
                ℱ None
                ReportsAndAnalysis
                ℱ Tasks
   dataitem(Ven ☐ tpageext, Pageextension(CUSTOM)
               ☐ taction
       RequestF 🛄 tassert
       column(C □ tcaptionml
       column(V □ tcaseelse
                                                                      : ' + VendF
       column(VendFilter; VendFilter){}
       column(Vendor_No_;"No."){}
```

- > Trigger on Report level
 - OnlnitReport
 - OnPreReport
 - OnPostReport

```
trigger OnInitReport();
begin
end;
trigger OnPreReport();
begin
end;
trigger OnPostReport();
begin
end;
end;
```

```
report 50200 "AL Customer Top 10 List,"
 //Properties
                                                                 The order of the elements is relevant
 //....
 Dataset
  //...
 requestpage 4
   //...
 //Report Level triggers
 trigger OnInitReport
 begin
 end;
 var
   //Global variables
```

Dataset

- > Defines the data for the report
 - > One or more DataItems could be included

> Has no own properties

Dataset – DataItem

> Adds a new sourcetable to the report

- > Nested DataItems
 - "Item" and "Item Ledger Entry"
 - > "Sales Header" and "Sales Lines"
 - > etc.
- > Sequentiell DataItems

```
dataitem(Name,SourceTable)
```

Dataset – DataItem – Columns

- > Needed to Print fields of the DataItem
 - Name
 - > Source Expression
 - · Global variable
 - · Field from sourcetable
 - Function
 - Textconstant
 - > No Triggers on column level

```
column(Name,SourceExpression)
{
    ...Properties...
}
```

```
AutoCalcField
AutoFormatExpression
AutoFormatType
Caption
CaptionML
DecimalPlaces
Description
IncludeCaption
OptionCaptionML
OptionMembers
```

Dataset – DataItem

- > Trigger on DataItem
 - OnPreDataItem
 - OnAfterGetRecord
 - OnPostDataItem

```
trigger OnPreDataItem();
begin
end;
trigger OnAfterGetRecord();
begin
end;
trigger OnPostDataItem();
begin
end;
```

Layout

> Define the Layout

```
RDLCLayout='.\Reports\Layout\CustomerTop10V2.rdlc';
WordLayout='.\Reports\Layout\word.docx';
```

- > Create Layout CTRL+SHIFT+B
- > Supported files
 - > .rdlc (Visual Studio)
 - > .rdl (SQL Report Builder)
 - .docx (Word Layout)

> Designing the Layout not part of this workshop

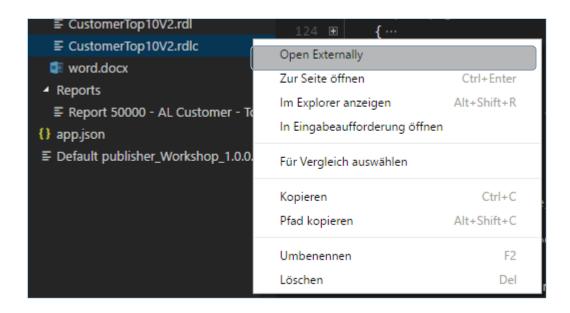
Don't worry the designing part is still the same

Layout

> Set Default Layout



> Open files from Visual Studio Code



Request Page

- > The same process as creating a normal pageobject
 - > The keyword has changed to "requestpage"

```
requestpage
{
    ...Properties...

    layout
    {
       }

    actions
    {
       }
    }
```

Now you create your first AL Report on your own — step by step



- > Build a small Report 50130 "Simple Document"
 - > Use with some fields from Sales Header:
 - · No.
 - · Selt-To Customer Name
 - · Selt-To Customer Address
 - · Selt-To Customer Post Code
 - · Selt-To Customer City

Order No. 101001

Adatum Corporation Station Road, 21 1230 Wien

➤ Add sales Lines to the Report "Simple Document"

Order No. 102200

Adatum Corporation Station Road, 21 1230 Wien

Item No.	Description	Quantity Unit	Amount
2000-S	SYDNEY Schreibtischstuhl, grün	2 Stück	382,00
1996-S	ATLANTA Whiteboard, Basis	5 Stück	7 021,50

> Add a picture and totals



Order No. 101004

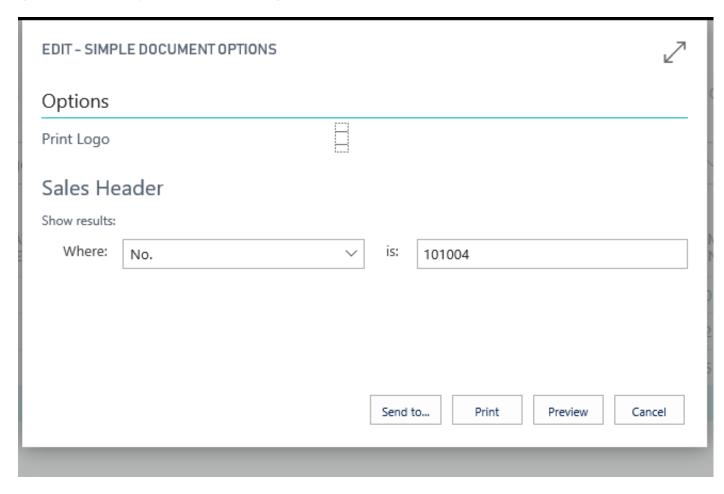
Alpine Ski House

Walter-Gropius-Strasse 5

80807 München

Item No.	Description	Quantity Unit	Amount
2000-S	SYDNEY Schreibtischstuhl, grün	3 Stück	573,00
		Total	573,00

➤ Make Request page with an option "Print logo"

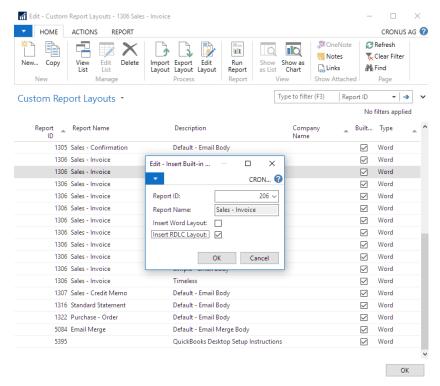


➤ Make a report for "Sales Quotes" using the same layout

Customizations

Customizations

- > Not "really" possible now
- > If the report has event publishers you could subscribe to them
- > You could define a Custom Layout
- > Replace a whole report with the report selection table
 - > Only possible for some documents



Customizations

- > Replace a Report with the new global Event publisher
 - > Only if the Report is called by Objectname/ID e.g Report.RUN(206) or for RunObject on action
 - > If you generate a variable of report 206 the event is not fired

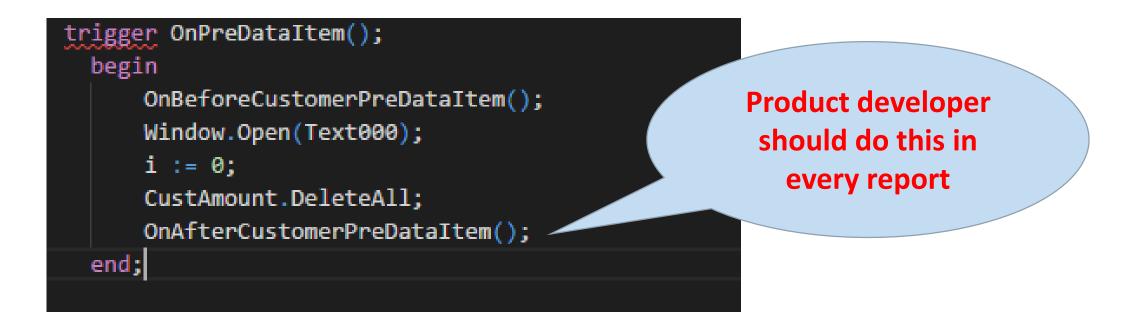
```
codeunit 50130 Testsubst
{

[EventSubscriber(ObjectType::Codeunit, Codeunit::ReportManagement, 'OnAfterSubstituteReport', '', false, false)]

0 references
local procedure MyProcedure(ReportId : Integer; var NewReportId: Integer)
begin
    if ReportId = 205 then NewReportId := 50130;
end;
}
```

Make reports extensible

> Place an event publisher on beginning and ending of every trigger and procedure



Q&A



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