

Autodesk Enterprise Priority Support

# Plant 3d Reporting – Report Creator

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# Overview

- Introduction
- How to start?
  - Create new (Report wizard)
  - Copy existing Plant report
- Data sources / Queries
  - Plant project / P&ID / Drawings and 3D-Parts data
  - Query data using filters
  - Require user input for the report (e.g. from date / to date) > Parameterized Report
  - Use calculated fields
  - Use Scripts on events for advanced reporting
- Formatting
  - User Interface for intuitive report design and formatting
  - Include images, watermarks, create charts...
  - Conditional formatting, inheritance of formats
  - Add navigation elements to the report (Hyperlinks)
  - Save styles in style sheets (\*.repss)
- Specials
  - Add data from arbitrarily data source (e.g. mdb, xls, csv, SQLite)
  - Schedule the report and run silent by commandline
  - Label Wizard
  - Alternative reporting (without Report Creator):
    - P&ID reporting through datamanager:
      - Create own Report (include 3D data)
    - Report through MS Access
      - How to set up (PDF/MDB)
    - Report using CSV from Isos

# Platform (Manual: [http://www.autodesk.com/plnt3d-helpfiles-enu/report\\_designer.pdf](http://www.autodesk.com/plnt3d-helpfiles-enu/report_designer.pdf), but some things are different, e.g. no repx files)

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WHAT'S NEW FREE TRIAL

DEPARTMENT	FULL NAME	ADDRESS	CITY	STATE	ZIPCODE	EMAIL
Engineering (Count=9)						
	13109 Old Myford ...	Irvine	CA	92602	barta@dx-email.com	
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	1325 Prospect Dr	Redlands	CA	92373	williamz@dx-email.com	
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	3101 W Harvard St	Santa Ana	CA	92704	margaretb@dx-email.com	
	4595 Cochran St	Simi Valley	CA	93063	terryb@dx-email.com	
	1635 Woods Drive	Los Angeles	CA	90069	bradf@dx-email.com	
				90012	stu@dx-email.com	

### Geographic Information Systems

Questions Tags Users Badges Unanswered Ask Question

Geographic Information Systems Stack Exchange is a question and answer site for cartographers, geographers and GIS professionals. It's 100% free, no registration required.

#### How to calculate custom fields in ArcGIS Reports?

I have a custom report in ArcGIS that summarizes my fields using basic descriptive statistics. For example, here is a summary field that calculates the maximum value in the group for a particular field:

Report Designer - Layout [Intersection Volumes]

DATE	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EST	EBR	WBL	WBT	WBR
Average	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EST	EBR	WBL	WBT	WBR
Maximum	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EST	EBR	WBL	WBT	WBR
Minimum	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EST	EBR	WBL	WBT	WBR
Standard Deviation	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EST	EBR	WBL	WBT	WBR
Variance	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EST	EBR	WBL	WBT	WBR

<https://www.devexpress.com>

# Why use Report Creator ?

## Use the Data Manager to . . .

Generate basic lists

Create plain reports

Communicate internally

(CAD administrator can configure new reports as needed in Project Setup)

## Use Report Creator to . . .

Generate lists that include calculated fields, BOMs and Material Lists with totals and component counts

Create formatted reports, complete with font selection, graphics, various layouts

Deliver reports to customers

Configure new reports as needed (CAD administrator)

Plant 3D Project Data

Long Description (Family)	Compatible Standard	Manufacturer	Material	Material Code	Long Description (Size)	Short Description	Spec	Size	Design Std	Content Iso Symbol Definition	Design Pressure Factor	End
PIPE, SEAMLESS, PE, AS...	ASME B36.10		CS	ASTM A106 ...	PIPE, SEAM...	Pipe, Seaml...	CS300	400		TYPE=PIPE		PL
ELL 90 LR, BW, ASME B1...	ASME B16.9		CS	ASTM A234 ...	ELL 90 LR, ...	ELL 90 LR	CS300	400		TYPE=ELB...		BV
PIPE, SEAMLESS, PE, AS...	ASME B36.10		CS	ASTM A106 ...	PIPE, SEAM...	Pipe, Seaml...	CS300	400		TYPE=PIPE		PL
ELL 90 LR, BW, ASME B1...	ASME B16.9		CS	ASTM A234 ...	ELL 90 LR, ...	ELL 90 LR	CS300	400		TYPE=ELB...		BV

Order by Object Type

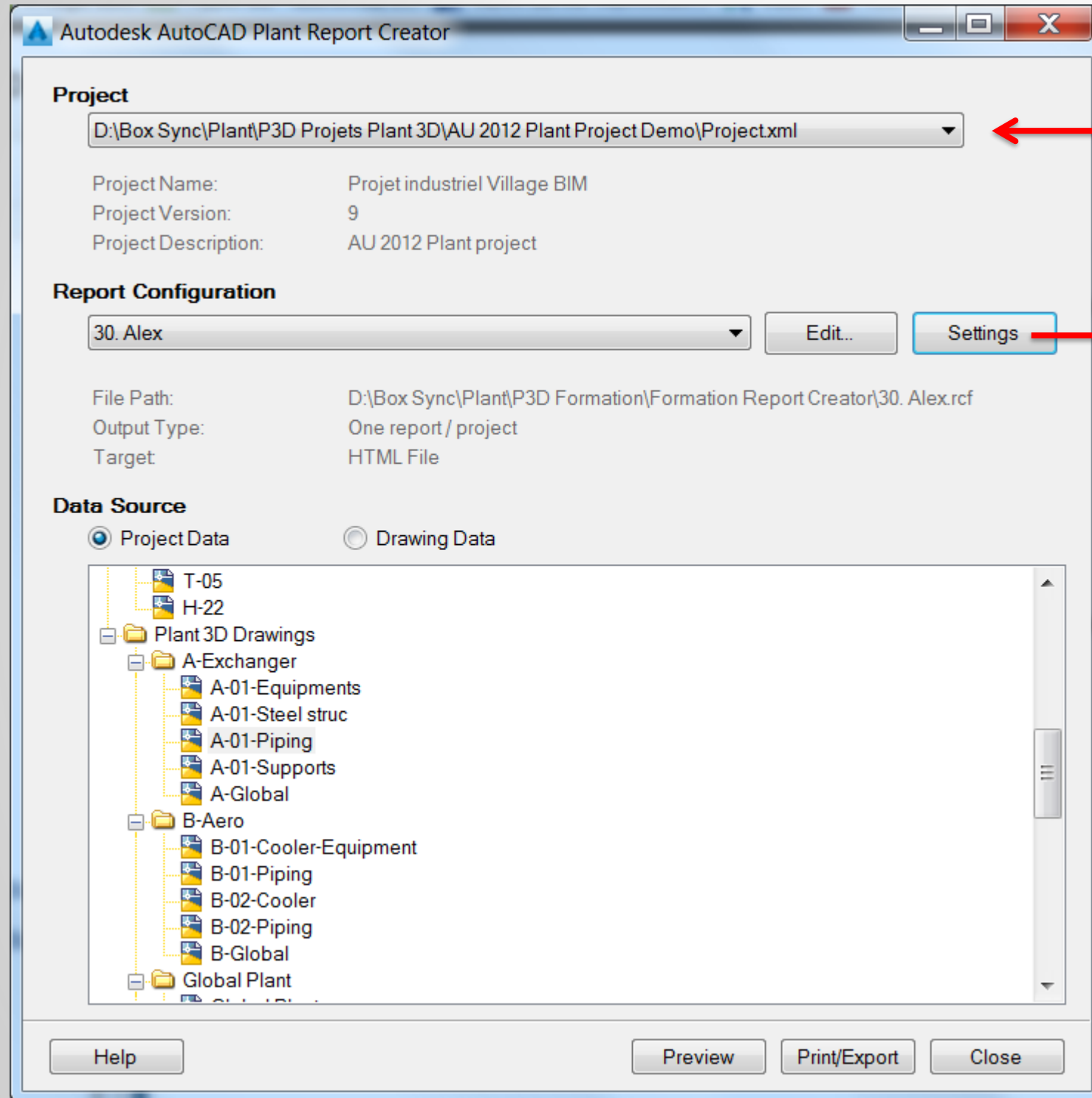
Record 0 of 2760

Quantity	Unit	Description	ND	Standard	Schedule	Material	PN	Angle
<b>Pipeline: 14</b>								
6576	mm	PIPE, SEAMLESS, 2 1/2" ND, PE, ASME B36.10, ASTM A106 GR B SMLS, SCH 40	65 mm	ASME B36.10	40	ASTM A106 Gr B SMLS		
35072	mm	PIPE, SEAMLESS, 8" ND, PE, ASME B36.10, ASTM A106 GR B SMLS, SCH 40	200 mm	ASME B36.10	40	ASTM A106 Gr B SMLS		
8		PH IMPERIAL Elbow 90.0° ND 2 1/2"	65 mm					
16		ELL 90 LR, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		FLANGE WN, 8" ND, 300 LB, RF, ASME B16.5, ASTM A105	200 mm	ASME B16.5		ASTM A105	300	
2		CAP, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		TEE, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		GATE VALVE, DOUBLE DISC, 2 1/2" ND, 300 LB, BW, ASME B16.10, 9 1/2" LG,	65 mm	ASME B16.10		ASTM A 351 Gr CF8M	300	
<b>Pipeline: 15</b>								
5384	mm	PIPE, SEAMLESS, 8" ND, PE, ASME B36.10, ASTM A106 GR B SMLS, SCH 40	200 mm	ASME B36.10	40	ASTM A106 Gr B SMLS		
6		ELL 90 LR, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		REDUCER (CONC), 8"X4" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, S	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		FLANGE WN, 4" ND, 300 LB, RF, ASME B16.5, ASTM A105	100 mm	ASME B16.5		ASTM A105	300	
<b>Pipeline: 16</b>								
5384	mm	PIPE, SEAMLESS, 8" ND, PE, ASME B36.10, ASTM A106 GR B SMLS, SCH 40	200 mm	ASME B36.10	40	ASTM A106 Gr B SMLS		
6		ELL 90 LR, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		REDUCER (CONC), 8"X4" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, S	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		FLANGE WN, 4" ND, 300 LB, RF, ASME B16.5, ASTM A105	100 mm	ASME B16.5		ASTM A105	300	

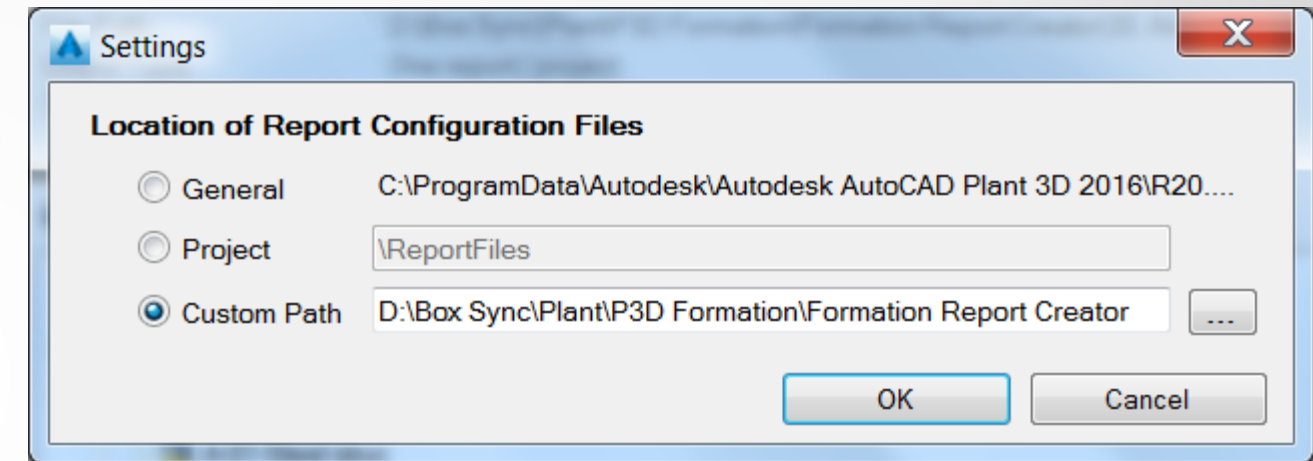
# Report Creator

- External program
- Performs SQL queries on Plant projects
- Can calculate fields and use powerful scripts
- Provides fully customized report layouts
- Doesn't require a additional license (is installed with P&ID and Plant 3D), just like the Spec Editor

# How to start



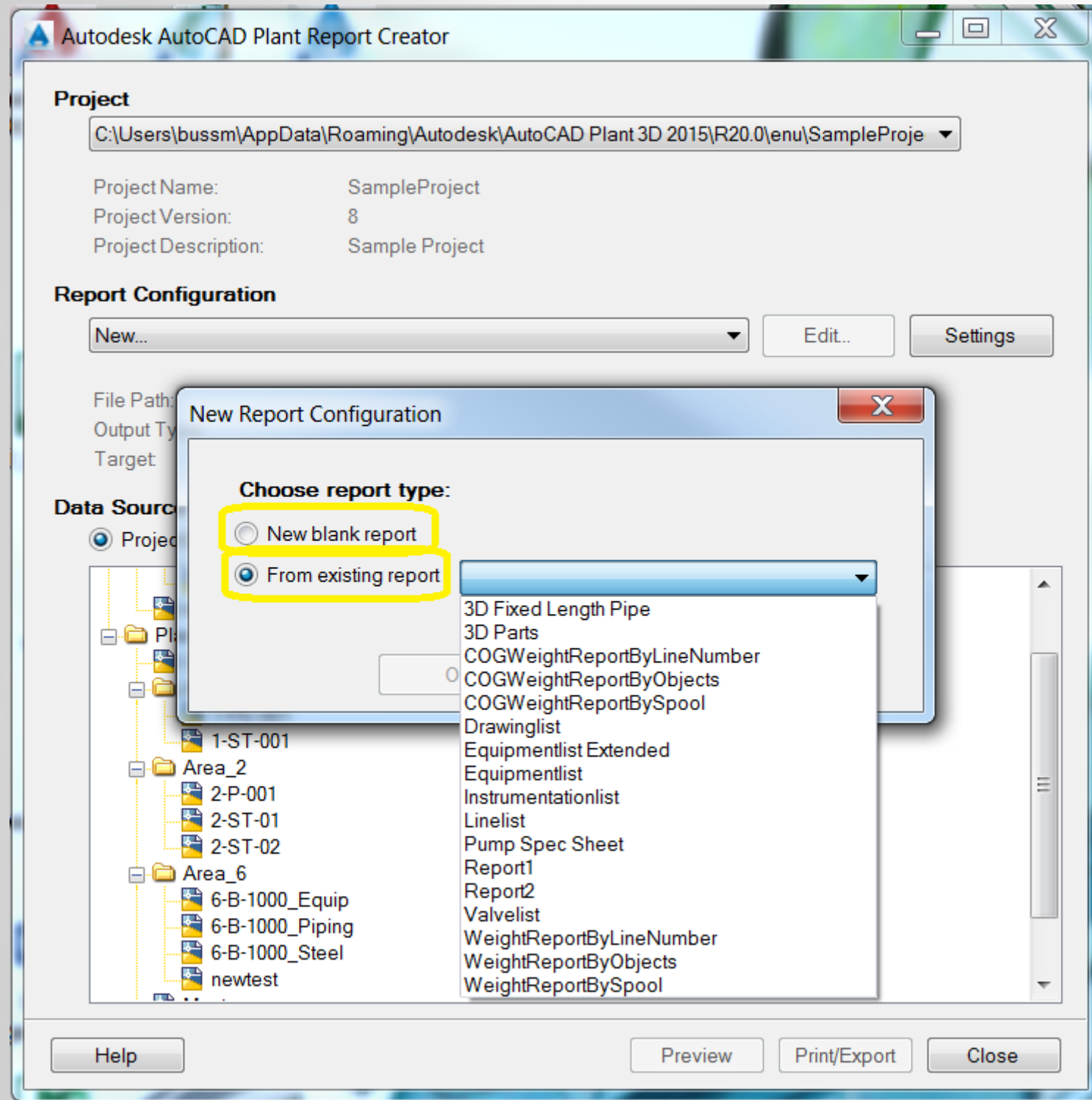
Choice of project for report



Settings:

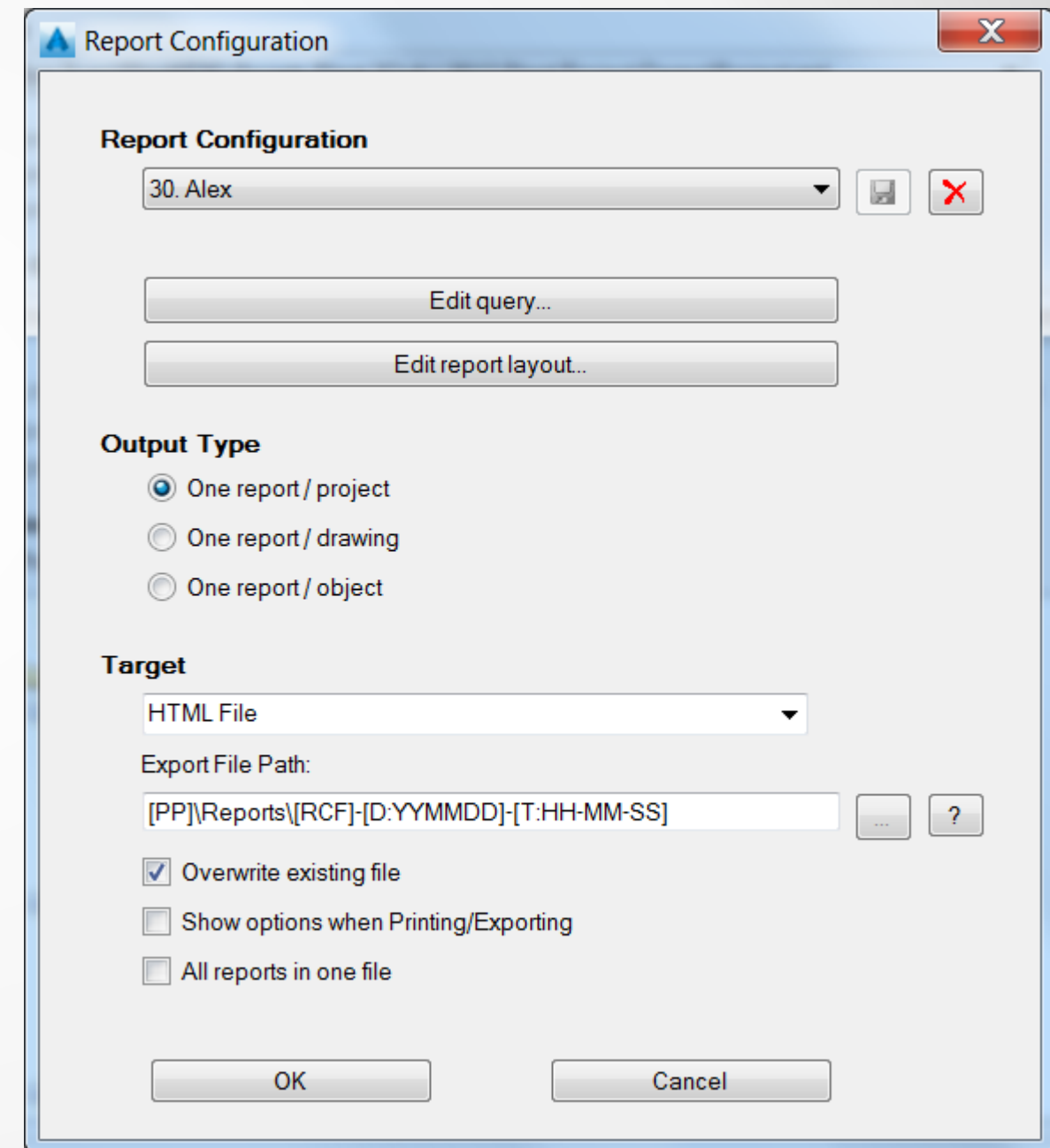
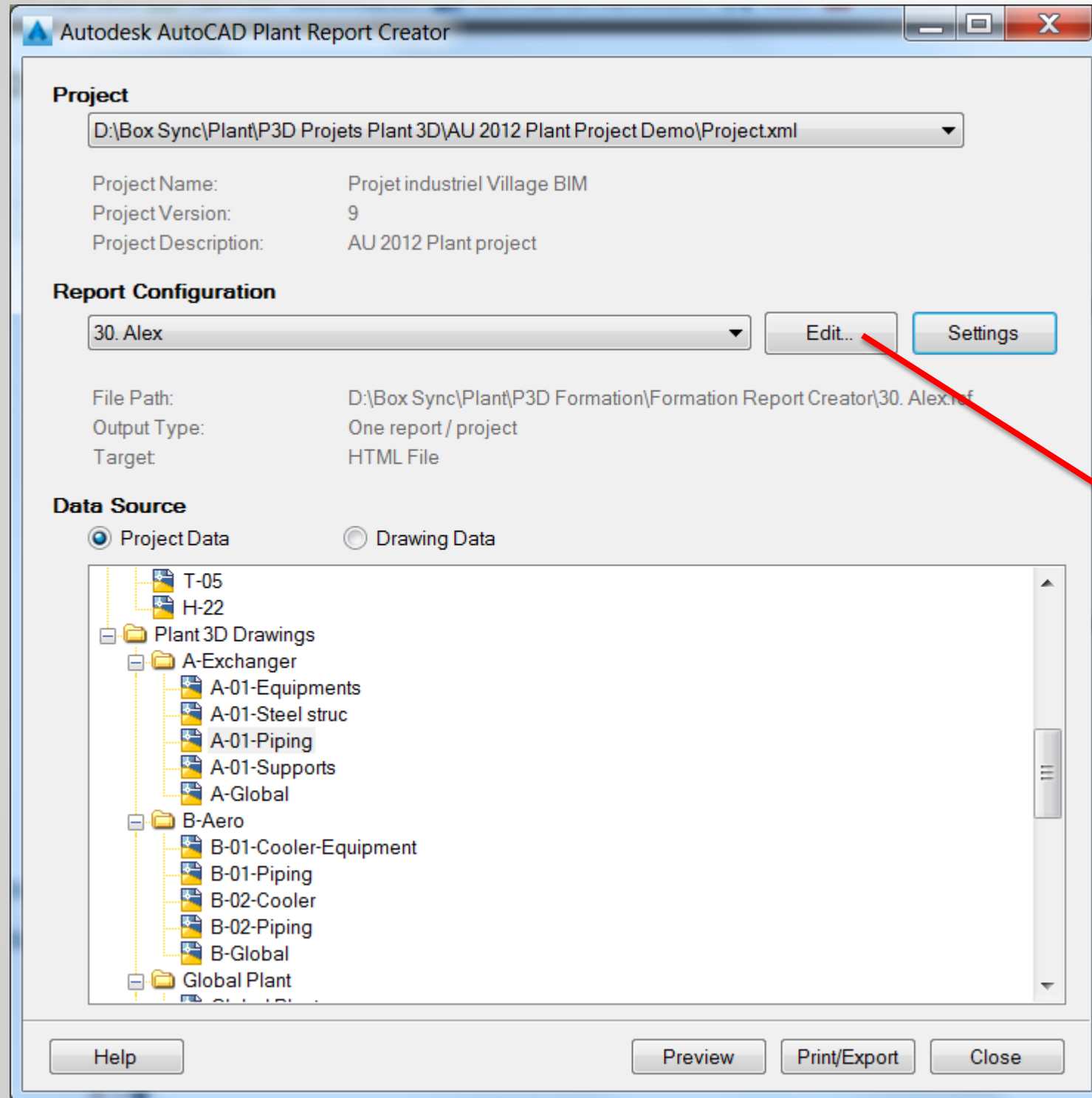
- General: default installation configurations path
- Project: path inside the Plant project
- Custom: in case all the config files are in a specific place

# New report

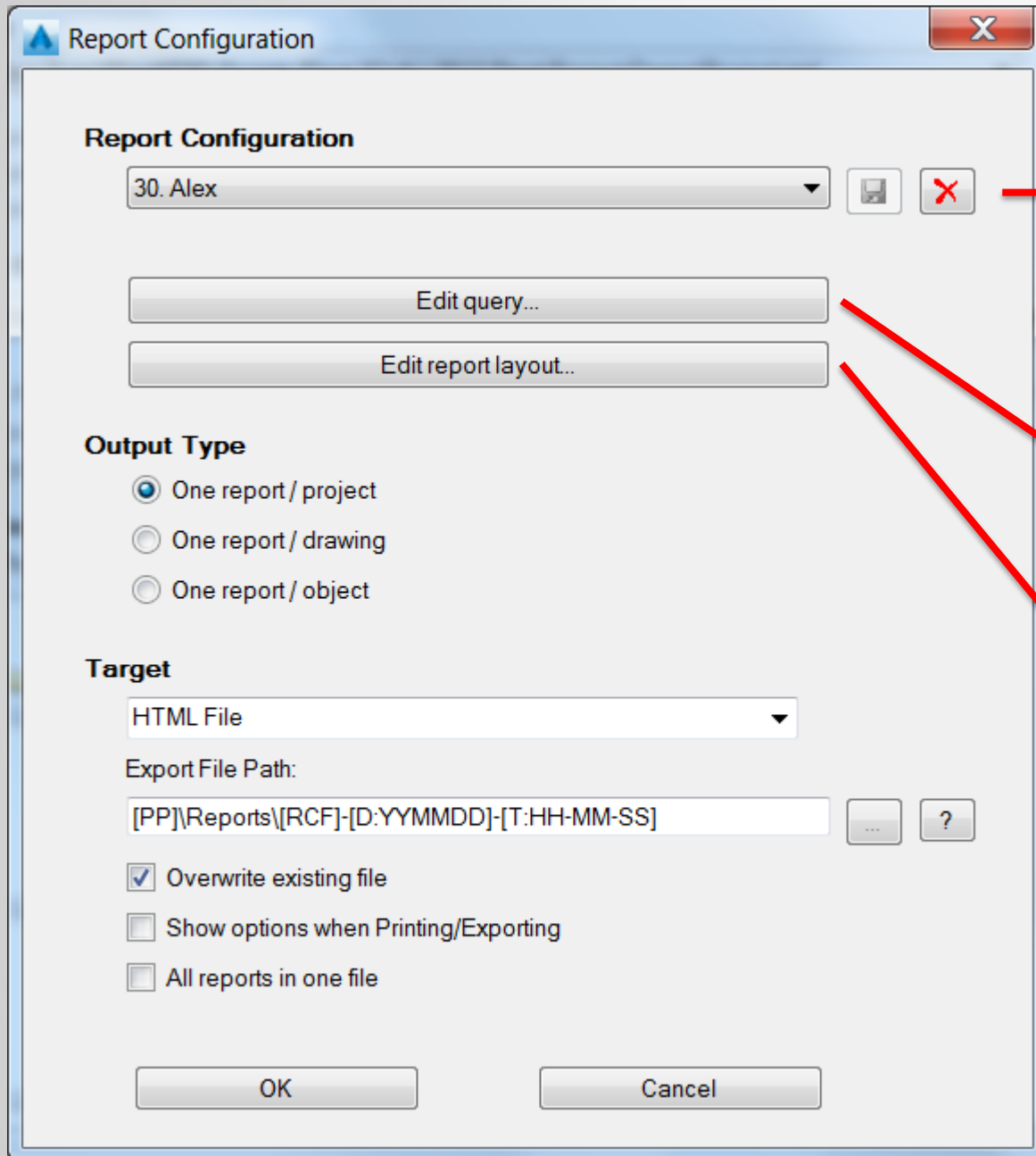


- New blank
- New from existing

# Edit report



# Edit report



## Change report template (.rcf files)

01. BOM By Drawing.rcf	11/26/2013 12:25 ...	RCF File	112 KB
02. BOM By Pipeline.rcf	8/29/2011 5:47 PM	RCF File	109 KB
03. BOM By Service.rcf	8/29/2011 5:51 PM	RCF File	109 KB
04. BOM By Spec.rcf	8/29/2011 11:07 PM	RCF File	109 KB
05. NozzleList By Equipment.rcf	2/11/2015 8:58 AM	RCF File	103 KB
06. Quantités isolant.rcf	2/19/2015 6:02 PM	RCF File	6,398 KB
07. Vannes.rcf	2/16/2015 2:26 PM	RCF File	223 KB
08. 3D Parts.rcf	2/11/2015 8:59 AM	RCF File	108 KB

## Edit query is the choice of:

- Database to query
- Classes and properties to query

## Edit report layout: advanced layout customization

# Edit report – specify file path

Variables

Available variables for "Export file path" are:

- [PN] = Project name created by Autodesk AutoCAD P&ID
- [PP] = Path of the project
- [DT] = Title of the drawing set by Autodesk AutoCAD P&ID. Available only when the "Output type" is "One report / drawing".
- [DWG] = Actual name of the DWG, because it differs from the drawing title. Available only when the "Output type" is "One report / drawing".
- [DP] = Path of the drawing without the DWG name, e.g. "c:\projects\CIP". Available only when the "Output type" is "One report / drawing".
- [D:x] = The current date, DD = day, MM = month, YY = 2-digit year, YYYY = 4-digit year, e.g. [D:DD-MM-YY] or [D:MM-DD-YYYY]
- [T:x] = The current time, HH = hour, MM = minute, SS = second, e.g. [T:HH-MM-SS] or [T:HH-MM]
- [C] = Simple counter starting at 1
- [RCF] = Name of the report configuration of ReportCreator, e.g. "Equipment"
- [PID] = Unique object identifier. Available only when the "Output type" is "One report / object".

The following characters can't be used: \ / : \* ? " < > |  
However, ` ` and ` / ` can be used for the directory (e.g. [DP]\[DWG]).  
You can combine the variables with text too, (e.g. [PP]\documents\Reports\[RCF]-[D:YYMMDD]-[T:HH-MM]).

For more details take a look in the manual.

OK

Report Configuration

30. Alex

Edit query...

Edit report layout...

**Output Type**

- One report / project
- One report / drawing
- One report / object

**Target**

HTML File

Export File Path:

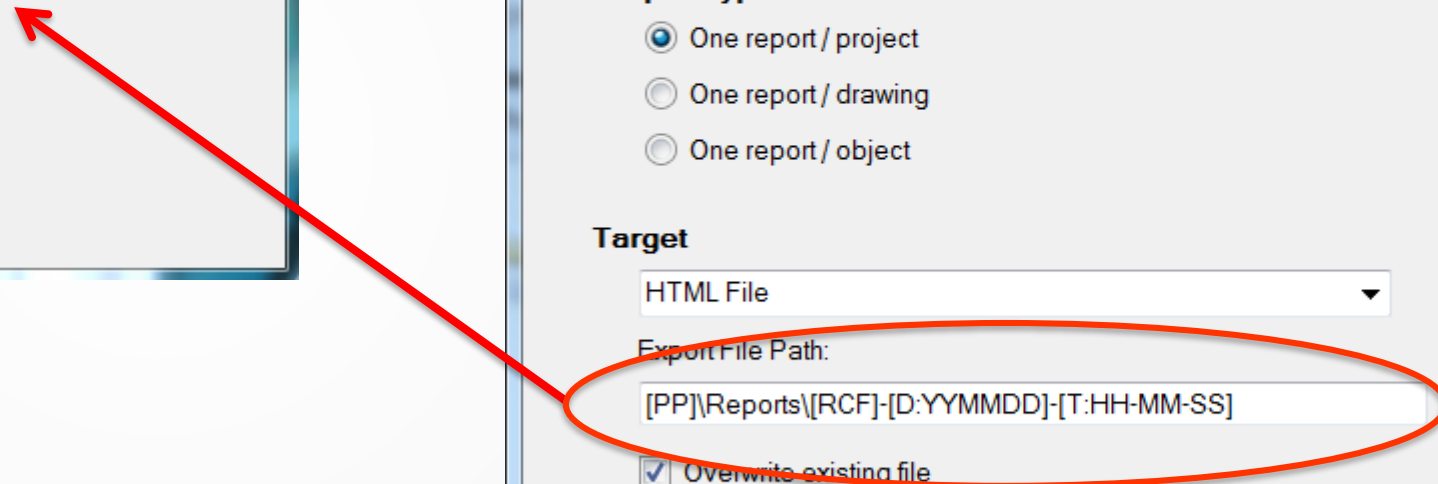
[PP]\Reports\[RCF]-[D:YYMMDD]-[T:HH-MM-SS]

Overwrite existing file

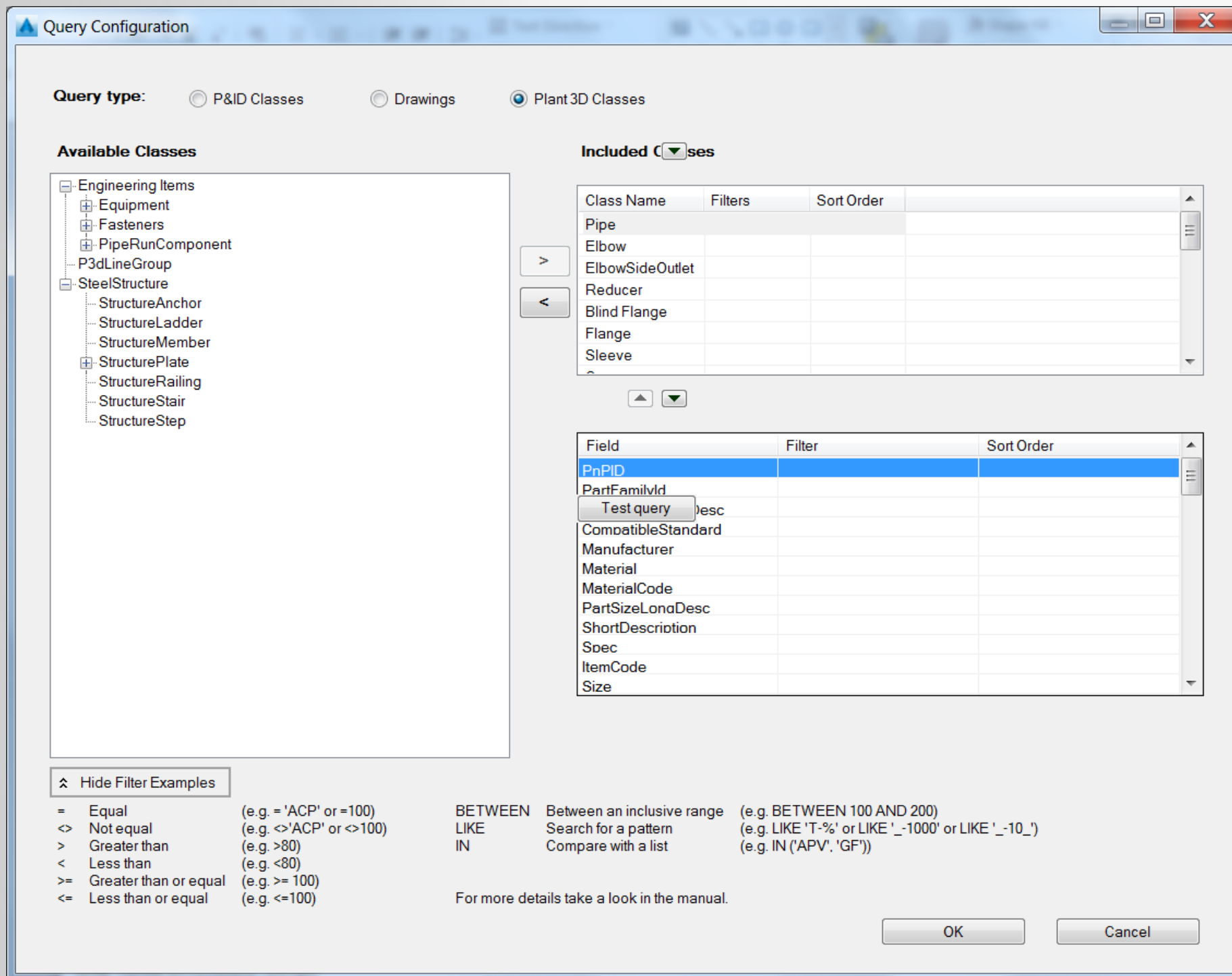
Show options when Printing/Exporting

All reports in one file

OK Cancel



# Queries



- Used to select classes and the required fields
- Similar to PLANTXDBMANAGER
- Advanced filters and sort (better use filters from the layout)
- Test query before next step

# Query test

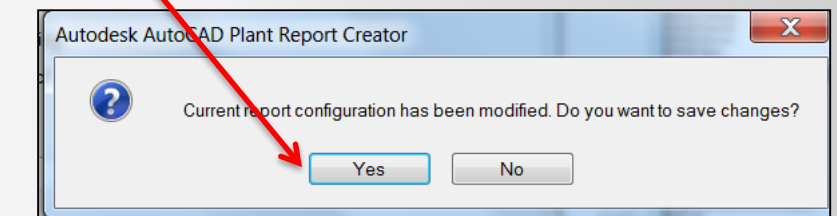
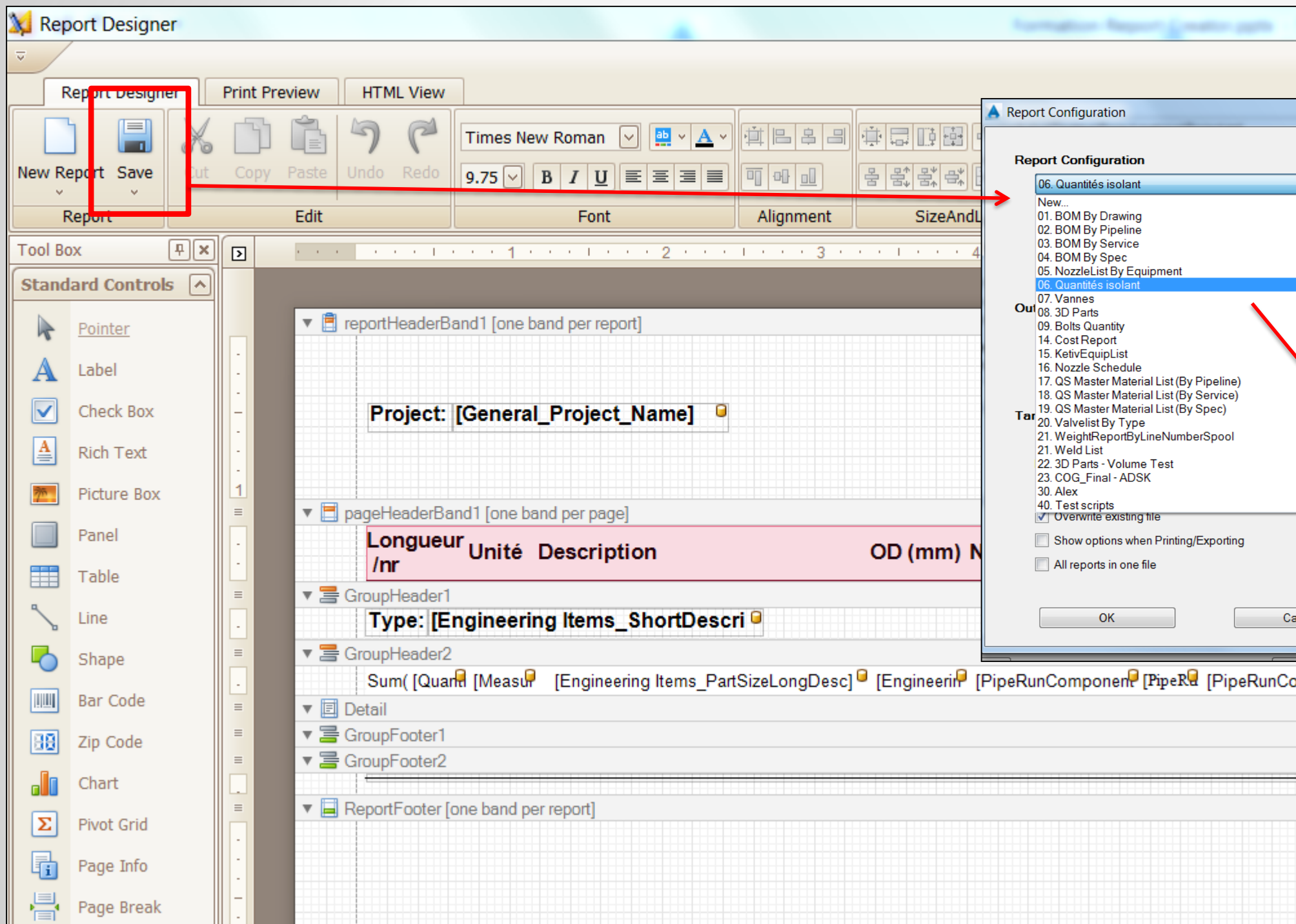
Query result

PnPID	EngineeringItems_PartFamilyId	EngineeringItems_PartFamilyLongDesc
949	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
973	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
985	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
1263	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
1277	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
2432	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
2475	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
2745	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
2757	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
2794	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
3061	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3182	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3231	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3273	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3297	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3305	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3317	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3329	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3341	c12271bf-ca35-4a55-8d2f-95fda9f7b86f	COUDE DE TUYAU, PIPE, SEAMLESS, PE, ASME B36.10, ASTM A106 Gr B SMLS, Sch 40
3743	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40
3775	1661262b-21d0-4091-a1df-40034cd94bba	ELL 90 LR, BW, ASME B16.9, ASTM A234 Gr WPB SMLS, Sch 40

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Close

# Warning: save process: dropdown to save!!!



# Layout – tool structure

All Elements you can use in your report

Header / Footer „Bands“ on Report, Page and Group Level for report structure

Access drawing elements from the element tree

Access element properties

Query results' fields for drag and drop in report



















The screenshot displays the report design tool interface with several key components:

- Standard Controls:** A vertical toolbar on the left containing various UI elements like Pointer, Label, Check Box, Rich Text, Picture Box, Panel, Table, Line, Shape, Bar Code, Zip Code, Chart, Pivot Grid, Page Info, Page Break, Cross-band Line, and Cross-band Box.
- Report Preview:** The central workspace shows a report titled "Steelreport" with a table structure. The table has columns: "Structure Member Size", "Steel Structure Part Size Long Desc", "Steel Structure Length Unit", "Structure Member Length", and "Structure Member Materialcode". The report includes header bands (reportHeaderBand1, pageHeaderBand1, groupHeaderBand1), a detail band, and footer bands (pageFooterBand1, GroupFooter1).
- Report Explorer:** A tree view on the right showing the report's structure, including elements like topMarginBand1, reportHeaderBand1, pageHeaderBand1, groupHeaderBand1, Detail, GroupFooter1, pageFooterBand1, and bottomMarginBand1.
- Property Grid:** A panel on the right showing the properties of the selected "GroupFooter1" element, categorized into Appearance, Behavior, Data, and Design.
- Field List:** A panel on the right showing a list of data fields from the query, such as ACP\_ClassOrder, Drawings\_Author, Drawings\_Description, etc.
- Group and Sort:** A panel at the bottom showing grouping and sorting options for the report.

Set grouping and sorting criteria

Field Name	Sort Order	Show Header	Show Footer
StructureMember_Size	Ascending	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

# Layout – Standart controls

 Pointer	<u>Reset tool selection (same as Esc button)</u>
 Label	<u>Text field, static text or data field</u>
 Check Box	<u>For displaying boolean (true/false) fields</u>
 Rich Text	<u>Text field can contain several formats, static text or data field or both</u>
 Picture Box	<u>Insert picture</u>
 Panel	<u>Group elements for easy moving and visually with borders or background</u>
 Table	<u>Arrange table layout, table can contain pictures and rich text</u>
 Line	<u>Decoration, cannot cross bands</u>
 Shape	<u>Decoration, many shapes available</u>
 Bar Code	<u>Insert bar code, many kinds supported</u>
 Zip Code	<u>Insert zip code</u>
 Chart	<u>Excel-like chart, create manually or based on reports' data</u>
 Pivot Grid	<u>Excel-like Pivot table</u>
 Page Info	<u>Date, page no, user name..</u>
 Page Break	<u>Force page break</u>
 Cross-band Line	<u>allows you to draw a line through several bands</u>
 Cross-band Box	<u>allows you to draw a rectangle through several bands</u>
 Subreport	<u>control allows you to include other reports in your current report</u>

# Layout - properties

Appearance	
Background Color	Transparent
Border Color	ControlText
Border Width	1
Borders	None
Font	Times New Ro...
Foreground Color	ControlText
Formatting Rules	(Collection)
Padding	2, 2, 0, 0
Style Priority	(Style Priority)
Styles	(Collection)
Text Alignment	Top Left

Behavior	
Anchor Vertical	None
Angle	0
Auto Width	No
Can Grow	Yes
Can Shrink	No
Keep Together	No
Multiline	No
Process Duplicates	Leave
Process Null Values	Leave
Scripts	(Label Scripts)
Visible	Yes
Word Wrap	Yes

Data	
(Data Binding)	
Lines	String[] Array
Summary	Group, Sum, {...
Tag	
Text	label12
Xlsx Format	

Design	
(Name)	label12

Layout	
Location	394.17, 3.33
Size	106.67, 25.83
Snap Line Margin	0, 0, 0, 0

Navigation	
Bookmark	
Navigation Target	
Navigation URL	
Parent Bookmark	(none)

Style section, formatting, see later

Behaviour, how fields do react when e.g. data string is too big for initial field size

Data binding

identifier

Position, size

Links, bookmarks for pdf, html reports

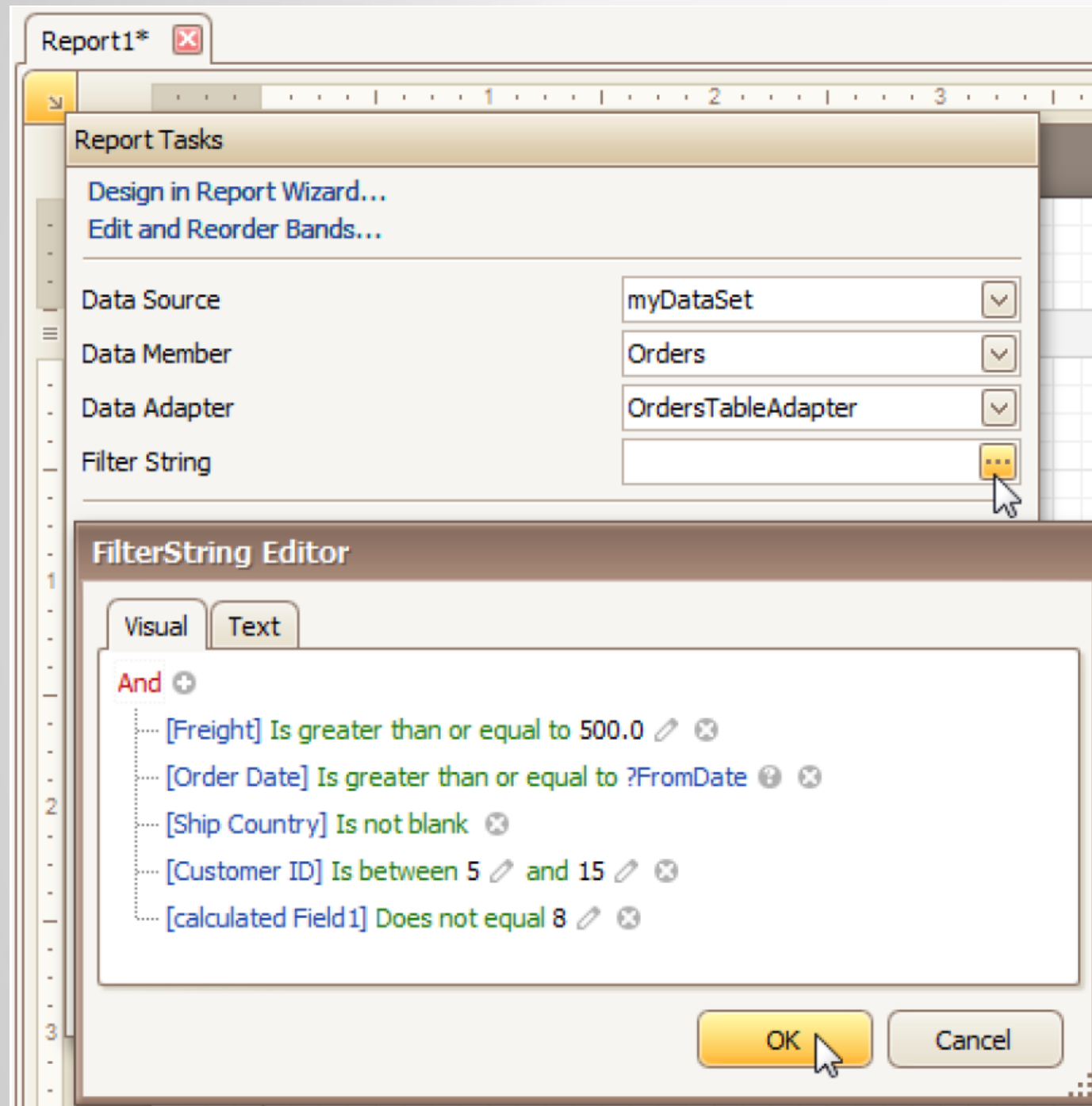
# Layout – Mail merge

Dear [FirstName] [LastName],

I am glad to notify you that the [ProductName] you purchased on [OrderDate!MM/dd/yyyy] has been shipped.

- Mix static text with dynamic elements
- Use [ ] for parameter names
- Format fields with !  
Expression following the parameter name

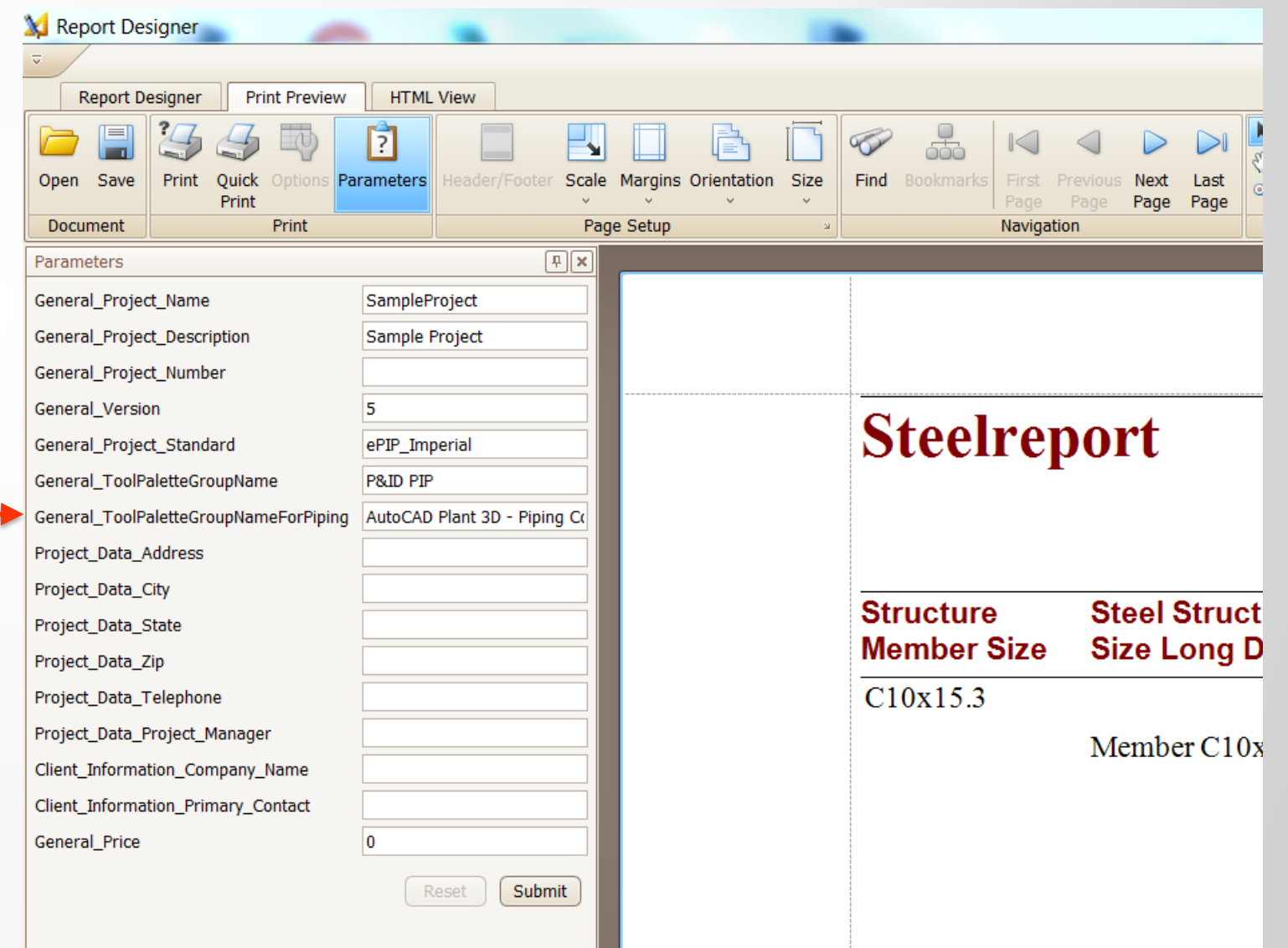
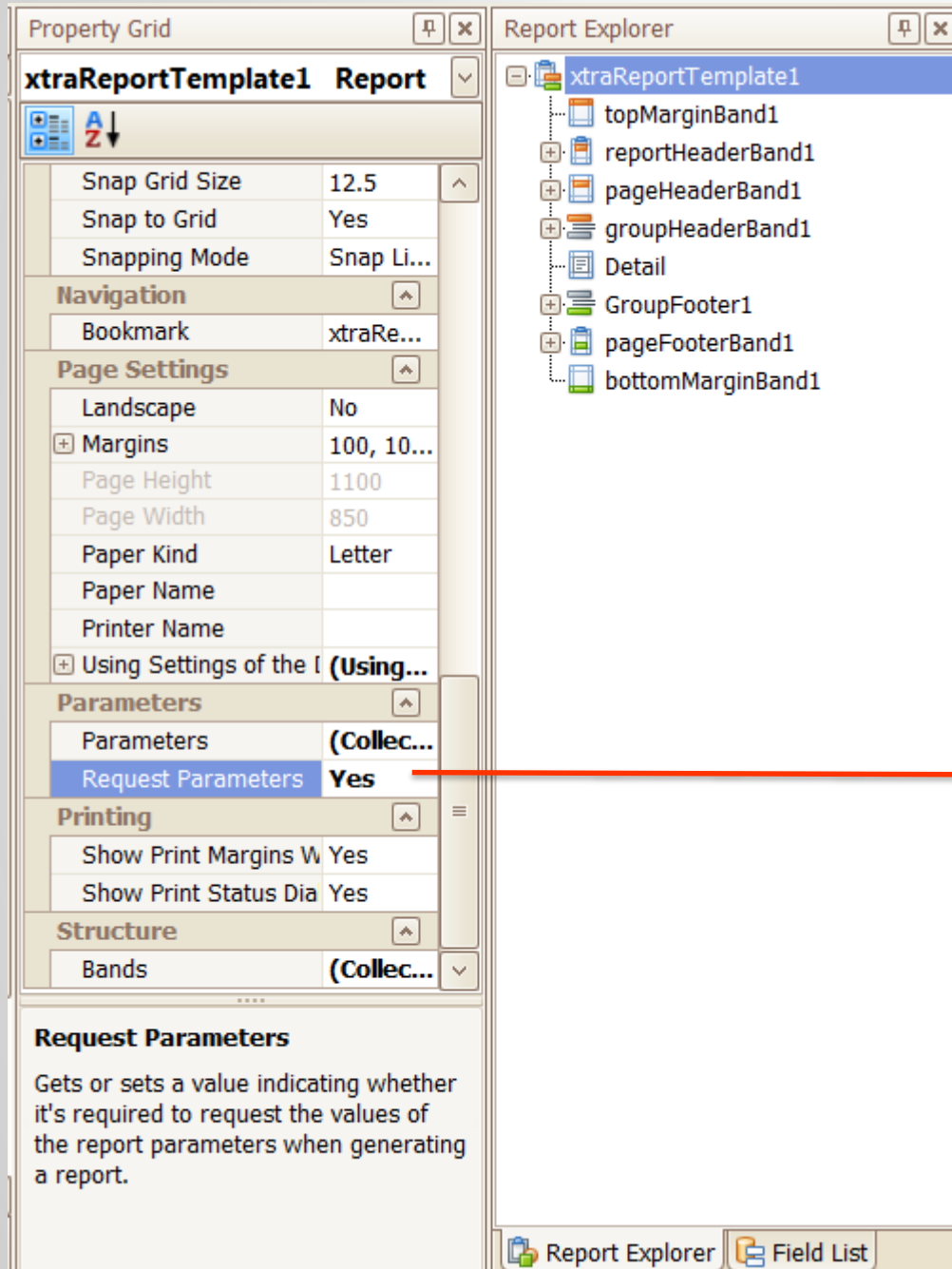
# Layout – Filter String



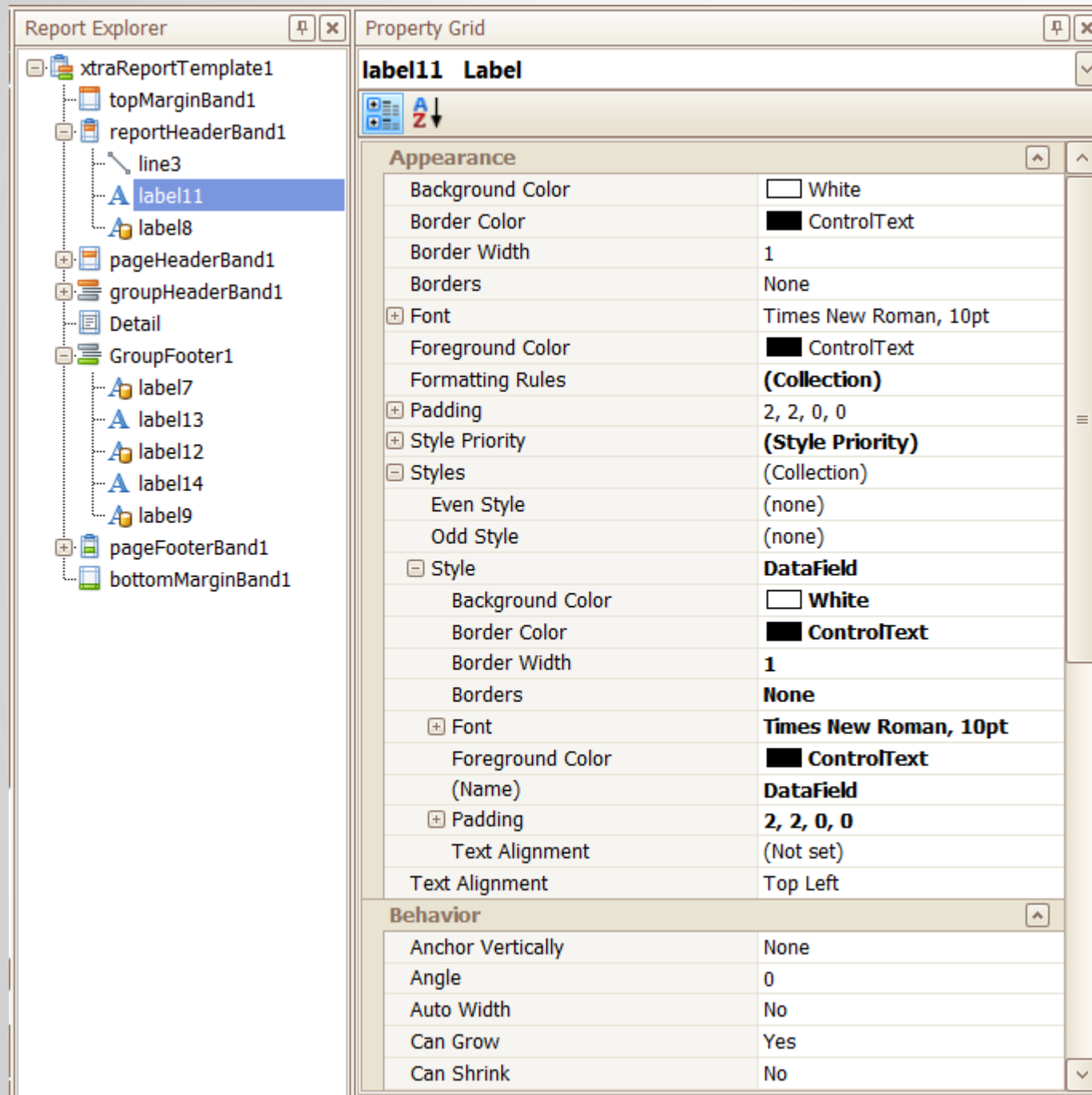
- Subsequent change of the query filter criteria

# Layout – Edit parameters before report creating

- Change parameters when creating reports



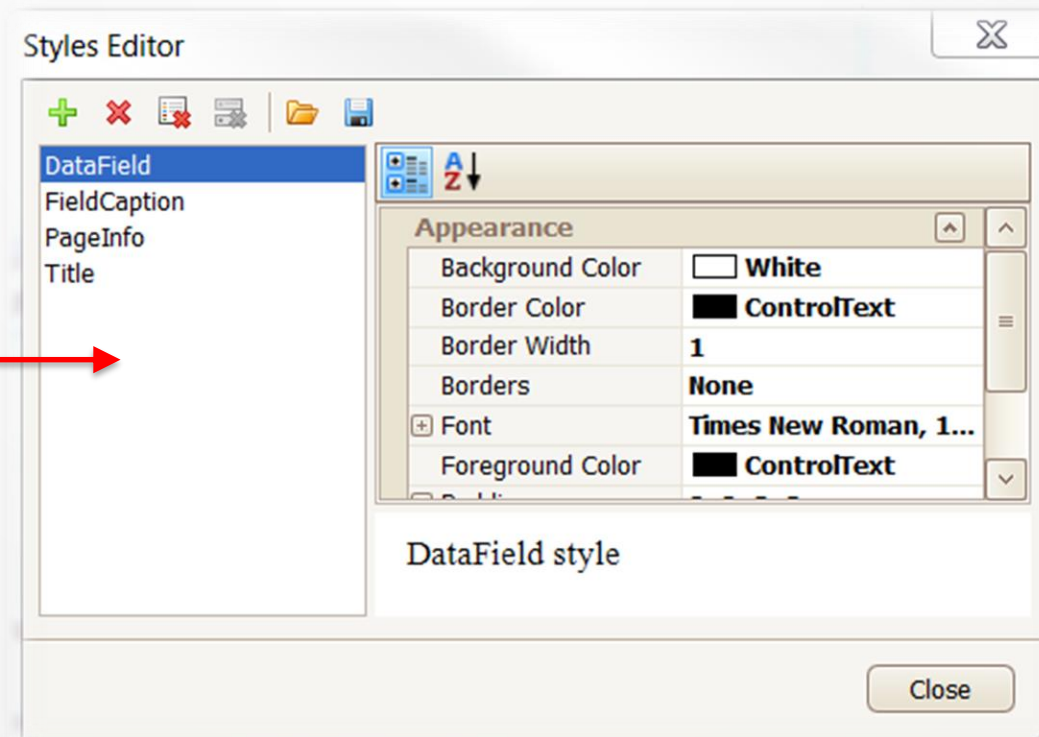
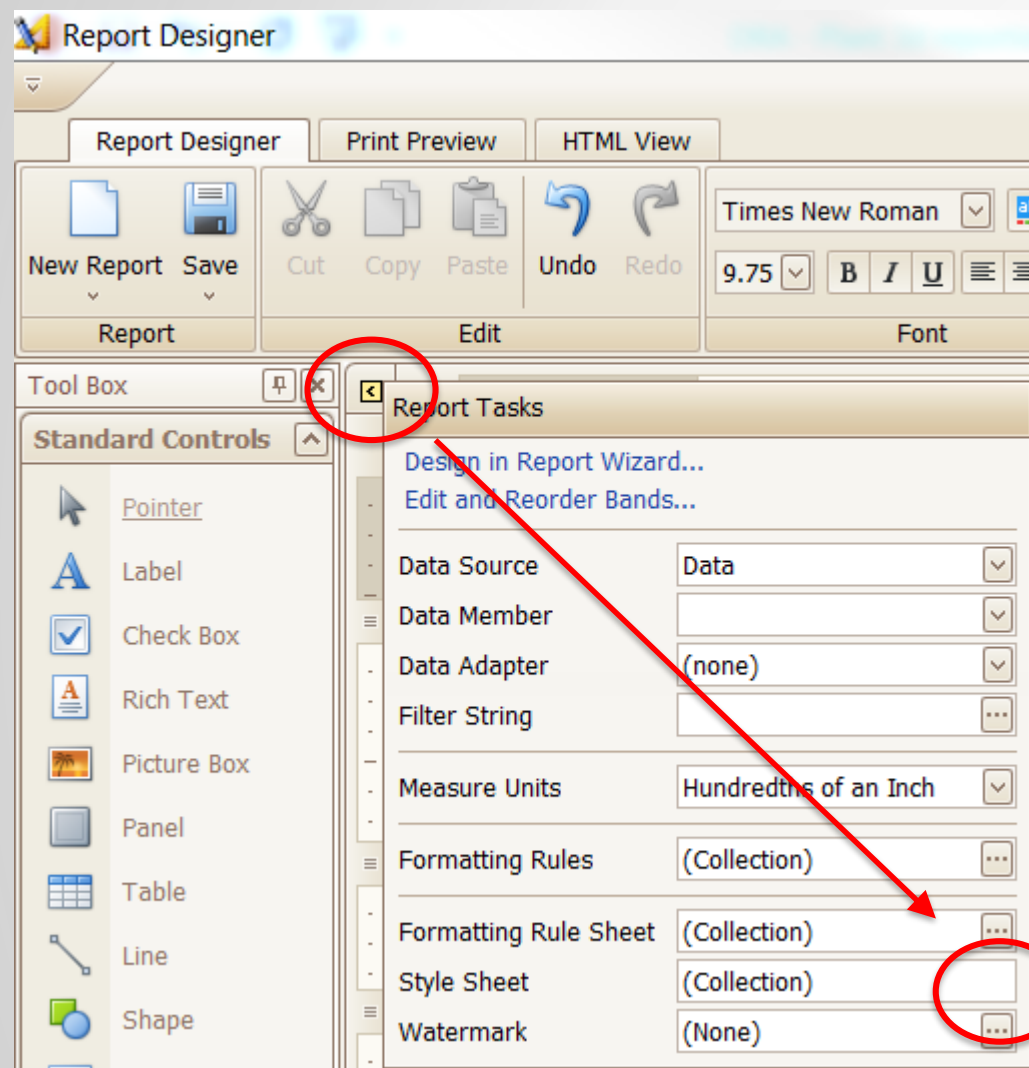
# Layout – Formatting, style concept



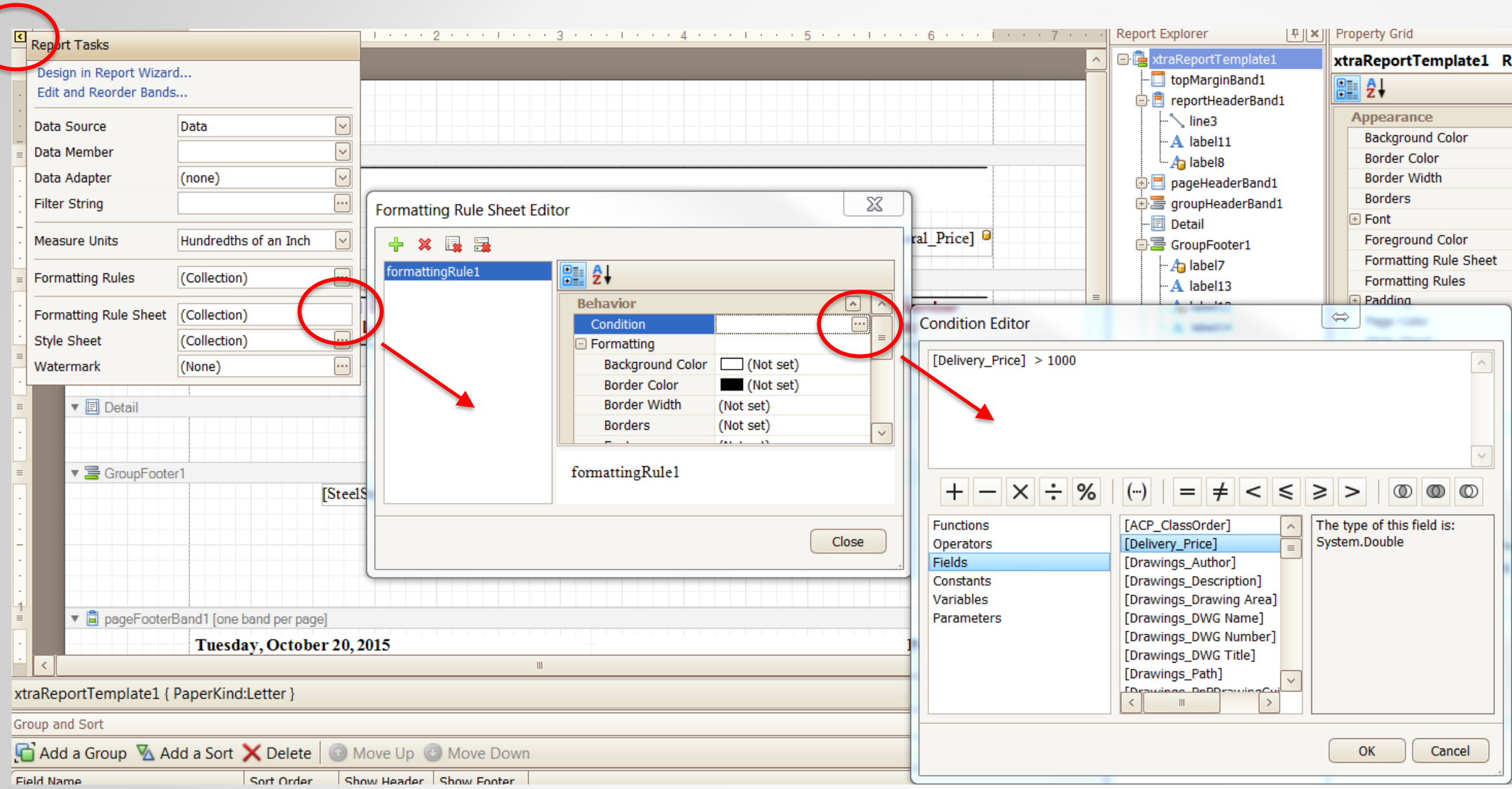
- Styles inherited down the tree
- Set style manually or set up styles in the style sheet
- Priority setting decides if manual or style from sheet wins
- Set up even and odd styles for the data listing

# Layout – Style Sheets (repss files)

- Styles can be saved externally (repss file) or in the report layout
- Styles in the layout override styles from style sheet when styles have same names



# Layout – conditional formatting



- Format on condition
- E.g. when weight too high, weight field gets red



# Examples: Grouping

01. BOM By Drawing

02. BOM By Pipeline

03. BOM By Service

04. BOM By Spec

Quantity	Unit	Description	ND	Standard	Schedule	Material	PN	Angle
<b>Pipeline: 14</b>								
6576	mm	PIPE, SEAMLESS, 2 1/2" ND, PE, ASME B36.10, ASTM A106 GR B SMLS, SCH 40	65 mm	ASME B36.10	40	ASTM A106 Gr B SMLS		
35072	mm	PIPE, SEAMLESS, 8" ND, PE, ASME B36.10, ASTM A106 GR B SMLS, SCH 40	200 mm	ASME B36.10	40	ASTM A106 Gr B SMLS		
8		PH IMPERIAL Elbow 90.0° ND 2 1/2"	65 mm					
16		ELL 90 LR, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		FLANGE WN, 8" ND, 300 LB, RF, ASME B16.5, ASTM A105	200 mm	ASME B16.5		ASTM A105	300	
2		CAP, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		TEE, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		GATE VALVE, DOUBLE DISC, 2 1/2" ND, 300 LB, BW, ASME B16.10, 9 1/2" LG,	65 mm	ASME B16.10		ASTM A 351 Gr CF8M	300	
<b>Pipeline: 15</b>								
5384	mm	PIPE, SEAMLESS, 8" ND, PE, ASME B36.10, ASTM A106 GR B SMLS, SCH 40	200 mm	ASME B36.10	40	ASTM A106 Gr B SMLS		
6		ELL 90 LR, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		REDUCER (CONC), 8"X4" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, S	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		FLANGE WN, 4" ND, 300 LB, RF, ASME B16.5, ASTM A105	100 mm	ASME B16.5		ASTM A105	300	
<b>Pipeline: 16</b>								
5384	mm	PIPE, SEAMLESS, 8" ND, PE, ASME B36.10, ASTM A106 GR B SMLS, SCH 40	200 mm	ASME B36.10	40	ASTM A106 Gr B SMLS		
6		ELL 90 LR, 8" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		REDUCER (CONC), 8"X4" ND, BW, ASME B16.9, ASTM A234 GR WPB SMLS, S	200 mm	ASME B16.9	40	ASTM A234 Gr WPB SML		
2		FLANGE WN, 4" ND, 300 LB, RF, ASME B16.5, ASTM A105	100 mm	ASME B16.5		ASTM A105	300	

# Setting up SQLite ODBC Access (e.g. for accessing spec sheets)

- SQLite driver (32bit/64bit)

<http://www.ch-werner.de/sqliteodbc/sqliteodbc.exe>

[http://www.ch-werner.de/sqliteodbc/sqliteodbc\\_w64.exe](http://www.ch-werner.de/sqliteodbc/sqliteodbc_w64.exe)

- On Win64 (64 bit versions of Vista, Windows 7) both 32 bit and 64 bit drivers can be installed in parallel. The 32 bit drivers are required when using 32 bit applications. In order to manage 32 bit data sources, the 32 bit ODBC admin tool  
C:\Windows\SysWOW64\odbcad32.exe must be used.

# External datasource (might not work in every version of Report Creator)

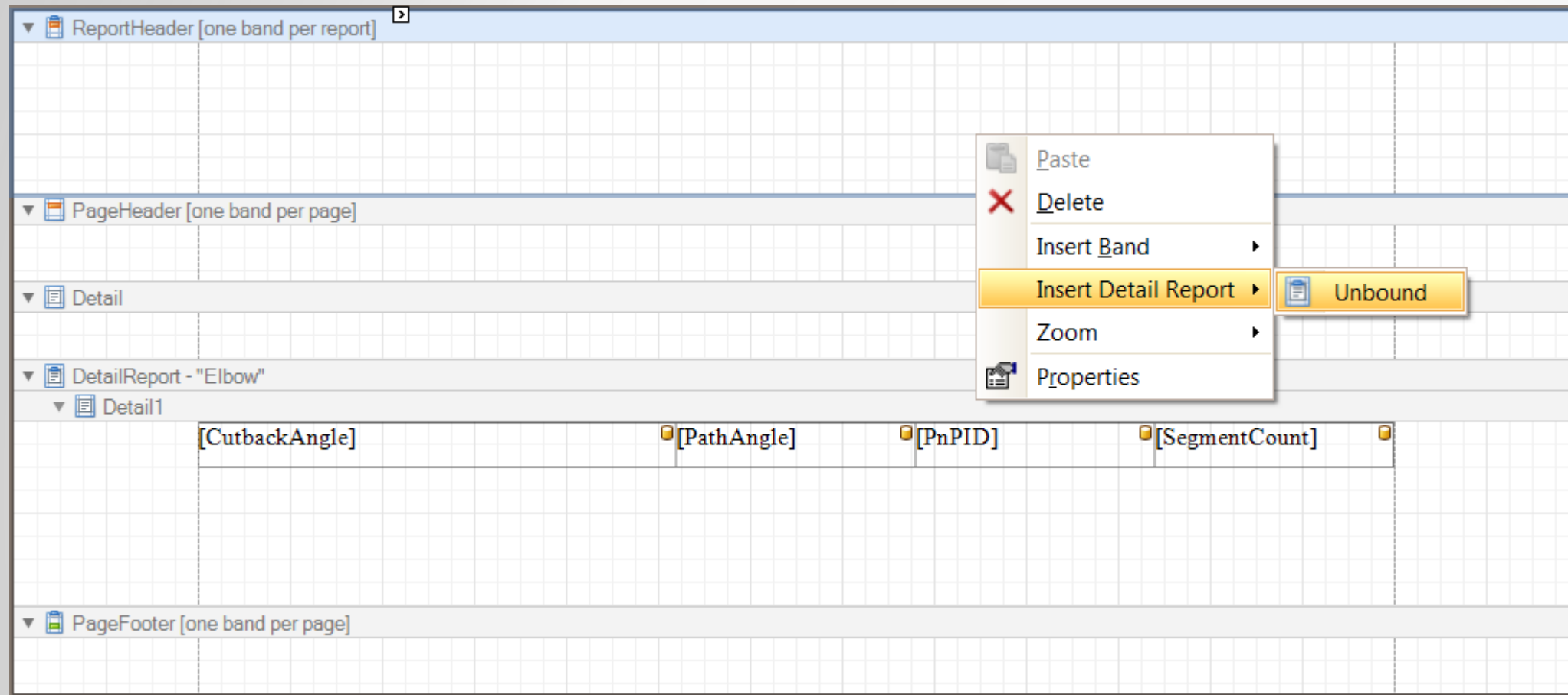
The screenshot shows a Windows 7 desktop environment. On the left, a search window is open with 'odbc' entered in the search bar. The search results are categorized into Programs (5), Control Panel (1), Videos (30), and Files (7). The 'Control Panel (1)' section is highlighted, showing 'Set up data sources (ODBC)'. In the center, the 'SQLite3 ODBC DSN Configuration' dialog box is open, titled 'Enter options for connect'. It contains the following fields and options: 'Data Source Name' (Sqlitespecsheet), 'Database Name' (ts\SampleProject\Spec\_Sheets\CS300.pspc), 'Lock Timeout [ms]', 'Sync.Mode', 'Load Extensions', and several checkboxes: 'No TXN', 'Step API', 'Short Column Names', 'Long Column Names', 'Foreign Keys', 'OEMCP Translation', 'Don't Create Database', 'Always BIGINT', and 'No WCHAR'. On the right, the 'ODBC Data Source Administrator' window is open, showing the 'System DSN' tab. It displays a table of 'System Data Sources':

Name	Driver
Advance ODBC Datasource	Advance ODBC Driver
SQLite3 Datasource	SQLite3 ODBC Driver
Sqlitespecsheet	SQLite3 ODBC Driver

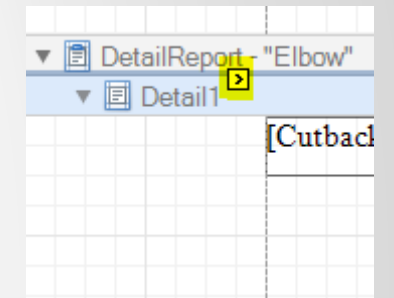
Buttons for 'Add...', 'Remove', and 'Configure...' are visible next to the table. At the bottom of the ODBC Data Source Administrator window, there is a text box explaining: 'An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.'

- Set up data source (ODBC)

# External datasource

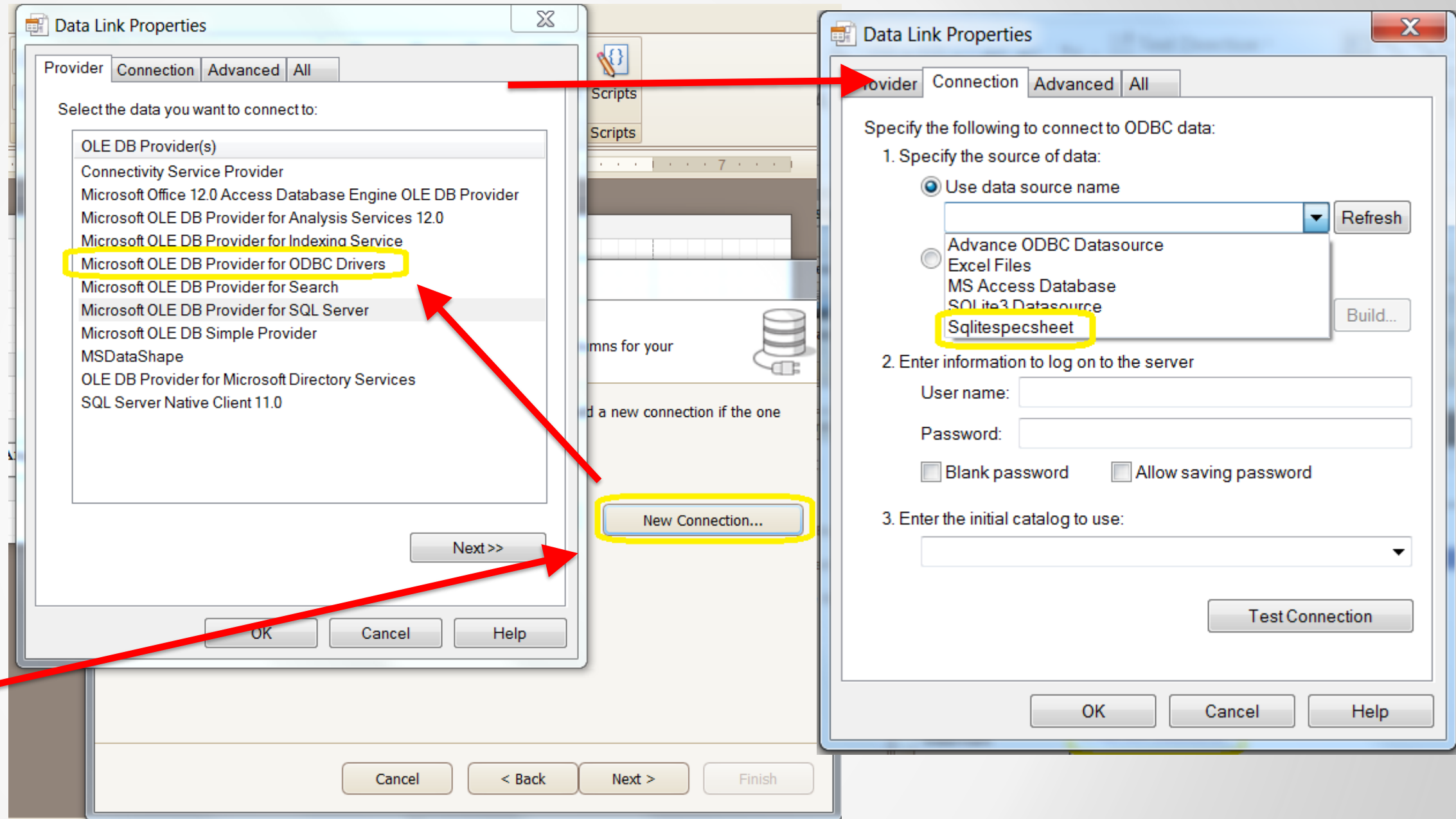
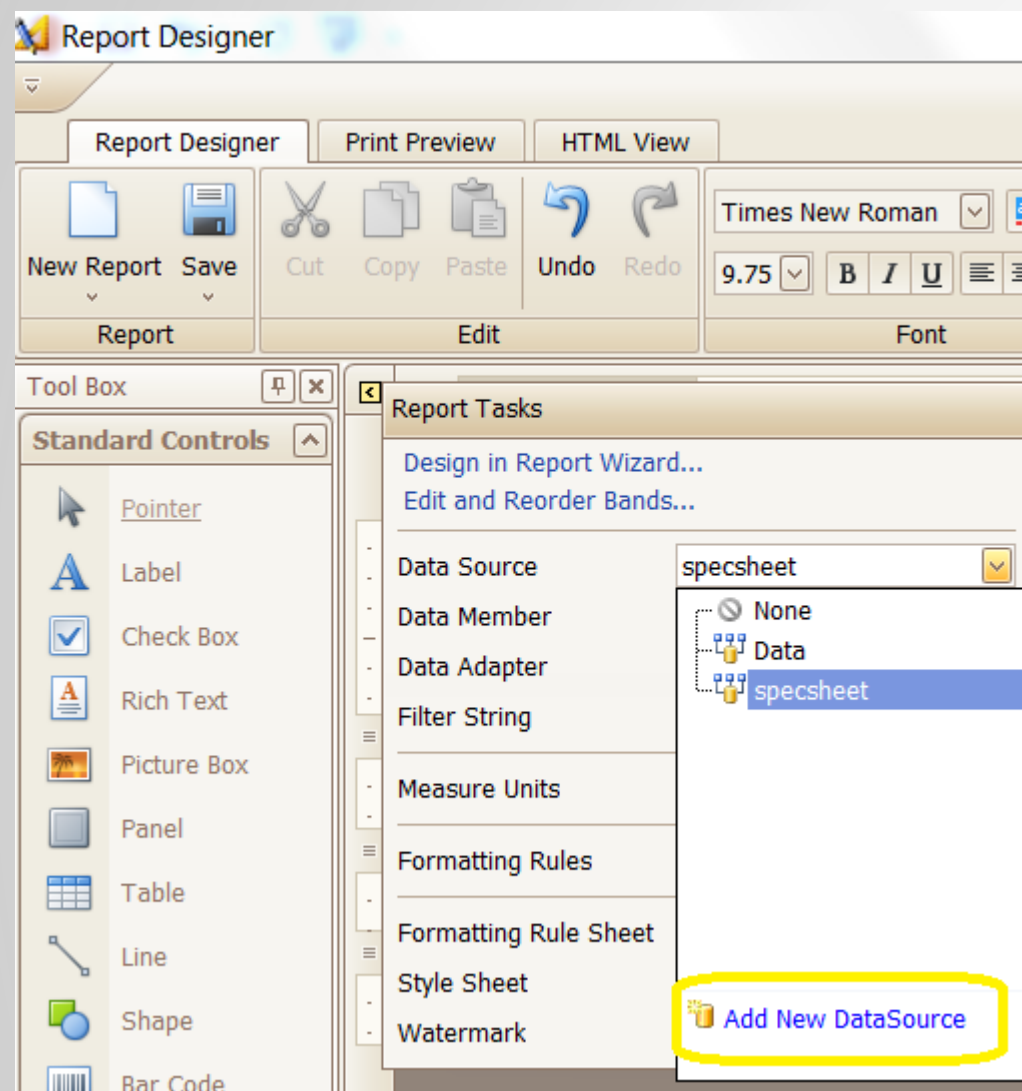


Click on the „smart Tag“ of the new Detail band to set up the datasource



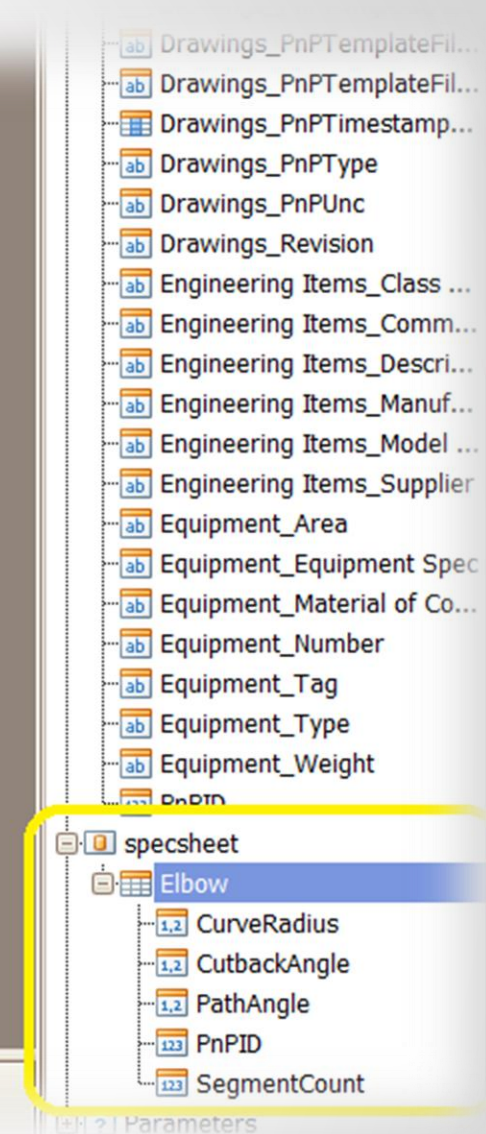
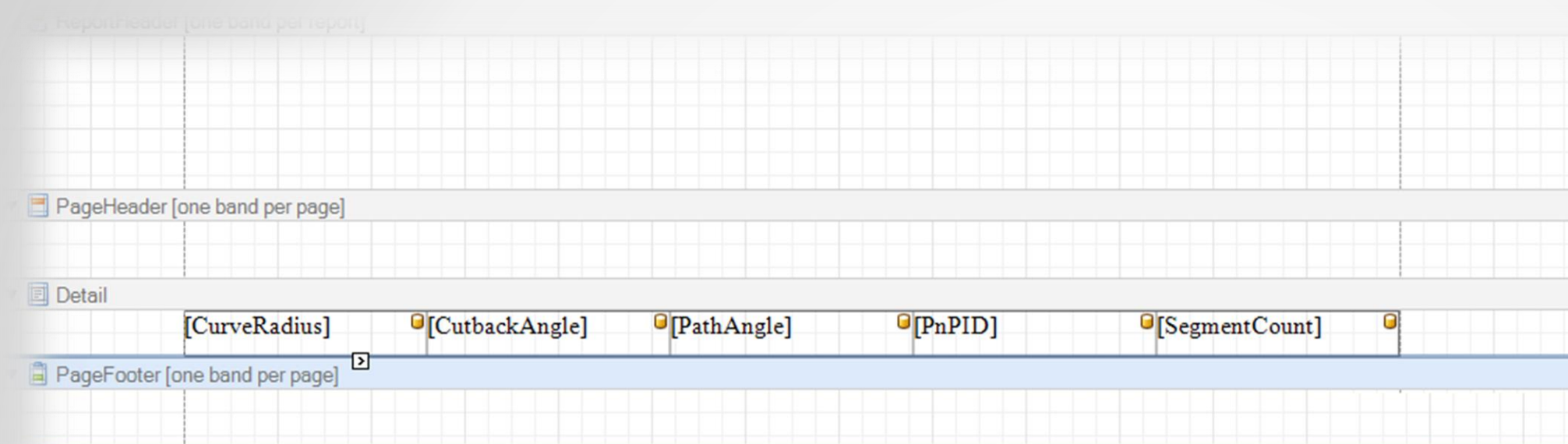
- Important: external data have to be bound to a „Detail Report“, it cannot be bound to the standart Detail band, because this is reserved for the Plant project datasource

# External datasource



- Add new DataSource in Report Creator, select ODBC source

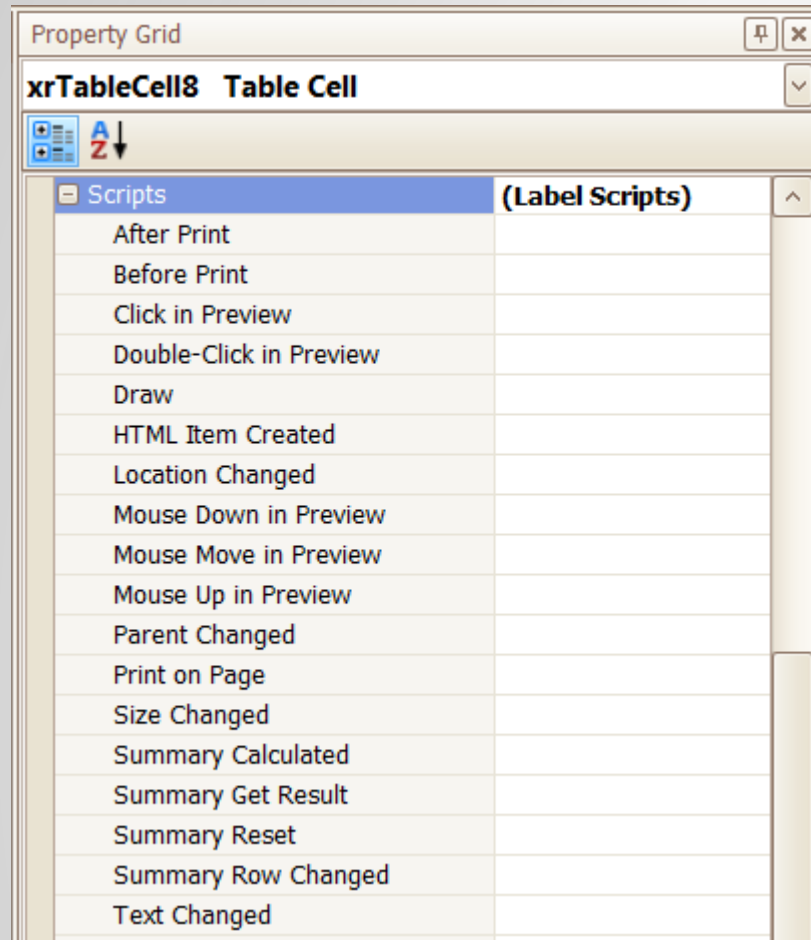
# External datasource



this is my data selection from the datasource setup, could be all specsheat data

- Data appears in the field list, Drag n Drop fields to the layout

# Script (c#) for report creator (apply on events)



- For most flexible report handling, scripts have to be applied
- Example: cannot use summarized fields for calculated fields
- Solution: follow instructions on: <https://documentation.devexpress.com/#XtraReports/CustomDocument4817Script> adds missing functions
- Various script languages possible: c#, vb..
- Many script examples from devexpress.com

# Report creator by command line (Schedule reports)

`/CONFIG <Filename>` - Specify report configuration file to use.

`/DWG <filename1[,filename2,filename3, ...]>` - Specify the drawings to include in the report.

`/HIDDEN` - Hides the main dialog and generates the report(s) or preview.

If you don't specify this, then we show the main dialog with all the other settings filled in, like report configuration file, drawings to select, and which project.

`/PREVIEW` - Show report preview.

`/PROJECT <Filename>` - Specify the Plant project file to use.

`/QUIET` - Be quiet. Turns off error dialogs.

Example (put in text file with `.bat` extension, then doubleclick or set up scheduled windows task):

```
"C:\Program Files\Autodesk\AutoCAD 2015\PLNT3D\PnPReportCreator.exe" /config "C:\ProgramData\Autodesk\AutoCAD Plant 3D 2015\R20.0\enu\ReportCreator\ReportFiles\Report1.rcf" /DWG "C:\Users\busssm\AppData\Roaming\Autodesk\AutoCAD Plant 3D 2015\R20.0\enu\SampleProjects\SampleProject\Plant_3D_Models\Area_1\1-PE-001.dwg" /PROJECT "C:\Users\busssm\AppData\Roaming\Autodesk\AutoCAD Plant 3D 2015\R20.0\enu\SampleProjects\SampleProject\project.xml" /hidden
```

# Alternative Reporting - P&ID reporting through datamanager

- Use predefined Reports
- Make custom Reports
- include tagged 3D parts' data (P&ID <> P3d data link is the Tag)
- Export as Excel
- Advanced editing possible in xml code, example:  
[https://www.cadlinecommunity.co.uk/hc/en-us/article\\_attachments/200566771/Actuator\\_Reports.pdf](https://www.cadlinecommunity.co.uk/hc/en-us/article_attachments/200566771/Actuator_Reports.pdf)

# (Alternative reporting – Report using CSV from Isos)

- Option to generate CSV data with iso
- CSV data is the parts list from the iso

# Useful links and information

Comprehensive Report Creator Manual (Vendor) (!!!):

[http://www.autodesk.com/plnt3d-helpfiles-enu/report\\_designer.pdf](http://www.autodesk.com/plnt3d-helpfiles-enu/report_designer.pdf)

Vendors' Online Manual (sample code, solutions !!!):

<https://documentation.devexpress.com/#XtraReports/CustomDocument2443>

Videos:

[https://www.youtube.com/results?search\\_query=report+creator](https://www.youtube.com/results?search_query=report+creator)

Product Homepage:

<https://www.devexpress.com/Subscriptions/Reporting/>

Autodesk Support Team:

<http://in-the-pipes.typepad.com>

Plant 3D forums:

<http://forums.autodesk.com/t5/autocad-plant-3d/ct-p/2046>

Technical issues/ FAQs:

<http://knowledge.autodesk.com/support/autocad-plant-3d/troubleshooting#?sort=score>