

# Agenda

- Product status
- > Feature highlights version 6.2

#### **Status**

- Version 6.2 in beta
- Latest released / production version is 6.1.5
- Developer and Standard editions available
  - Standard cannot be used for report integration, cannot be used to create RDS based reports

## Feature highlights v6.2

- Crosstab / Pivot table support
- Copy DataFlex Reports Studio options from an older version during installation
- SQLite driver to create reports on this database
- > DSN connection string builder in ODBC wizard
- Formatting functions for Number, Integer, Time, Date & Currency
- Bigint support

## Feature highlights v6.2

- Excel export using native datatype
- Side-by-side support for DataFlex Reports Studio
- DataFlex Reports Studio is now DPI aware
  - New icons to support different DPI settings
- Import & Export of RDS table structure and test data
- Hide/Show row number in RDS table structure and test data grids
- Hide barcode text and default barcode type

## Feature highlights v6.2

Positioning and sizing of objects via functions



# Crosstabs / Pivot tables

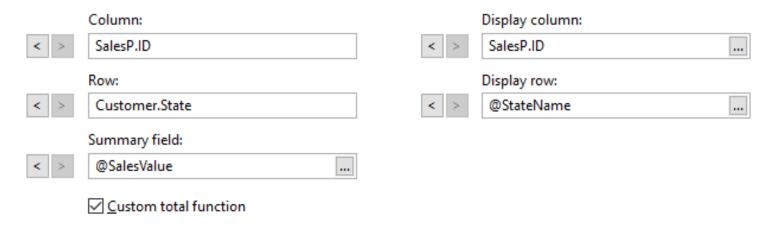
١	AS	BR	BS	CM	CS	CW	DJ	DM	FF	FMB	HS	JC	JS	JW	KS	LM	МН	МК
Alaska				6811			- 55	2.41						38374				
Arkansas				3011										27463				
Arizona			96304					27897										
California	6670										60873	84192				238388		1130
Colorado						17919								263575				
Delaware				6060									161440	8862				17615
Florida				58861							14135		8546					
Georgia												9671						
Hawaii																		
lowa	215865	18616							29290									
Idaho															187586			30908
Illinois			23418												87759		8011	
Indiana													28799			88874	52575	
Massachusetts			33957														42480	
Maryland																		
Missouri		44996											12177					
Mississippi						3215												
North Dakota																		
Nebraska	182784																	
New Hampshire	4413											17255				90636		
New Mexico														42775				
New York						26804												
Ohio									26461									15531
Oklahoma		14172							8532	9139						54890		
Oregon		940					246609			29086		287675		22413	31975			
Pensylvania			5600					38350										
Rhode Island				35476	96616	3105			141591				31717		143610			
Tennesee											143720			4275				
Texas	121289											1092						
Utah											27016							
Virginia																		15600
Vermont																		
Washington	270672																	
Wisconsin				104262											100491	21309		34880
West Virginia																	4500	
Wyoming					25935					22185	12658							

### Crosstabs / Pivot tables

- Works on all data-sources (DataFlex, ODBC, RDS)
- Not limited to one page only
  - Number of rows and columns may not fit on one page
  - > You need scissors and glue to make a large print out

### Crosstab / Pivot tables

- Via insert crosstab wizard
  - > Select database column or function returning
    - Row value / label
    - Column value / label
    - Summary value



## Crosstab / Pivot tables

- Column/Row width & height can be changed
- Different display value for Column and Row can be chosen
- Custom totaling function possible
- > Row and column totals can be added
- Grand total value can be displayed
- > Row and column labels can be repeated per page
- > Two or more crosstabs per page possible
- Crosstabs per group possible

## Crosstab / Pivot tables

- Lines around and inside the crosstab can be configured
- Label text can be rotated
- Cell margins can be configured

## Demo

Inventory sales per salesperson per US state



## **SQLite driver**

- > We needed it for dr.db and language.db
- Can only be used with DataFlex Reports
  - Not a connectivity kit as in MSSQLDRV, ODBC\_DRV etc
- Can be used for any report that needs to run on a SQLite database



## **SQL** Connections

#### **Creating connections**

Select from (v6.1 and older)

- User DSN
- System DSN
- > File DSN
- Enter DSN less connection string

#### Select from (v6.2)

- Choose existing DSN
- Create DSN less connection
- Choose DataFlex Managed Connection

## **SQL Connections**

- > The change helps developers unfamiliar with DSNs
  - > The end-result is the same as in v6.1.5 and before
- Managed connections
  - New in DataFlex since v19.0
  - Connection information is read and converted into a connection string
    - Change in connection information in your workspace does not change the connection string in the report. You need to do that at integration level



# Formatting functions

- > FormatNumber
- FormatInteger
- FormatCurrency
- > FormatDate
- > FormatTime

## Formatting functions

#### Combine text strings and variables

#### Prior to v6.2

Total for order 101 is 1668 Total for order 102 is 396

```
return 'Total for order'

*CStr({OrderHea.Order_Number})

*'is'

*CStr({OrderHea.Order_Total})
```

#### With v6.2

Total for order 101 is \$1,668.00 Total for order 102 is \$396.00



## **Excel Export**

#### With native data-type support

#### Prior to v6.2

Green corners indicating Excel does not know the data-type

4	A B C D	E F G H I J K L M N O P Q R S T	UVWX	ZAAABAC					
1	Inventory listing								
2	Inventory listing								
3									
4	Item_ID	Description	Price	Available					
5	ACE1	Ace marks the spot	25,00	89					
6	ACE-2 More Ace Stuff 15,00								
7	BEARS The Bears of North America 32,00								
8	BRIDGE Famous Bridges I've Known - Photos 195,00								

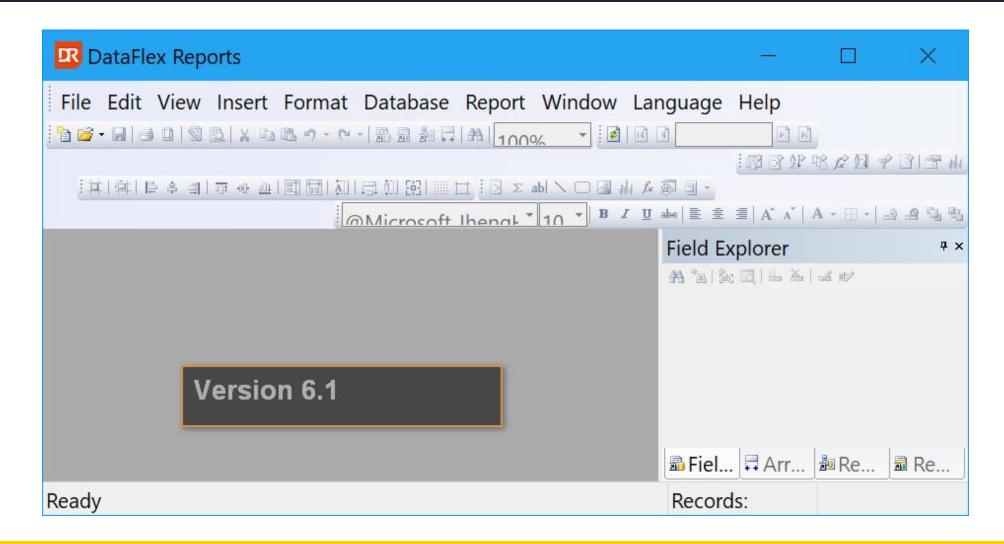
#### With v6.2

No green corners

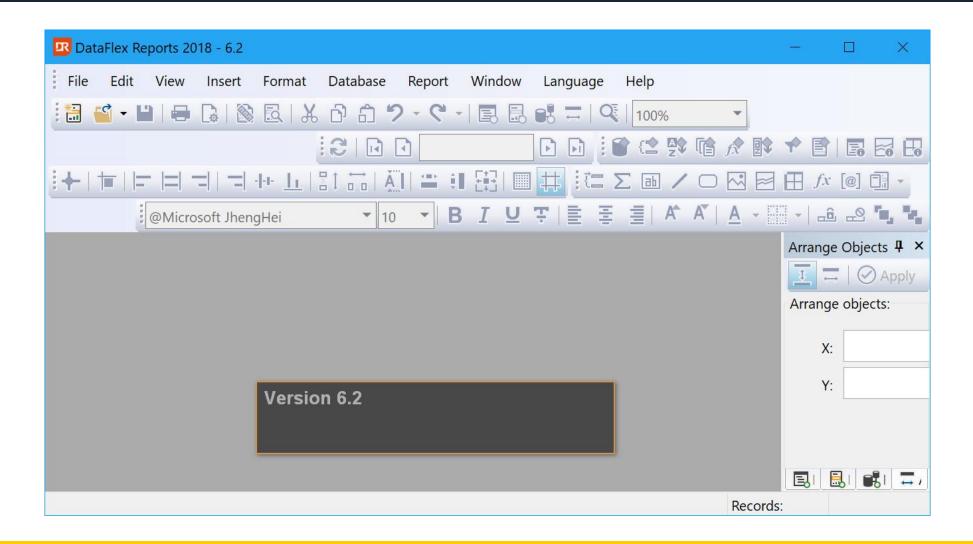
1	A B C D	E F G H I J K L M N O P Q R S T U	v w x y	Z AAABAC					
2	Inventory listing								
3	Itam ID		Price	Available					
5	ACE1	Description Ace marks the spot	25	Available 89					
6	ACE-2	More Ace Stuff	15	89					
7	BEARS	The Bears of North America	32	636					
8	BRIDGE	Famous Bridges I've Known - Photos	195	614					



## DPI aware (not!)



#### **DPI** aware - YES



#### **DPI** aware – how?

- > DataFlex 19.0
- CodeJock v17 components
- > New icons with 5 icons for each DPI size
  - > 16x16, 20x20, 24x24, 28x28, 32x32
- Code changes for calculating available space



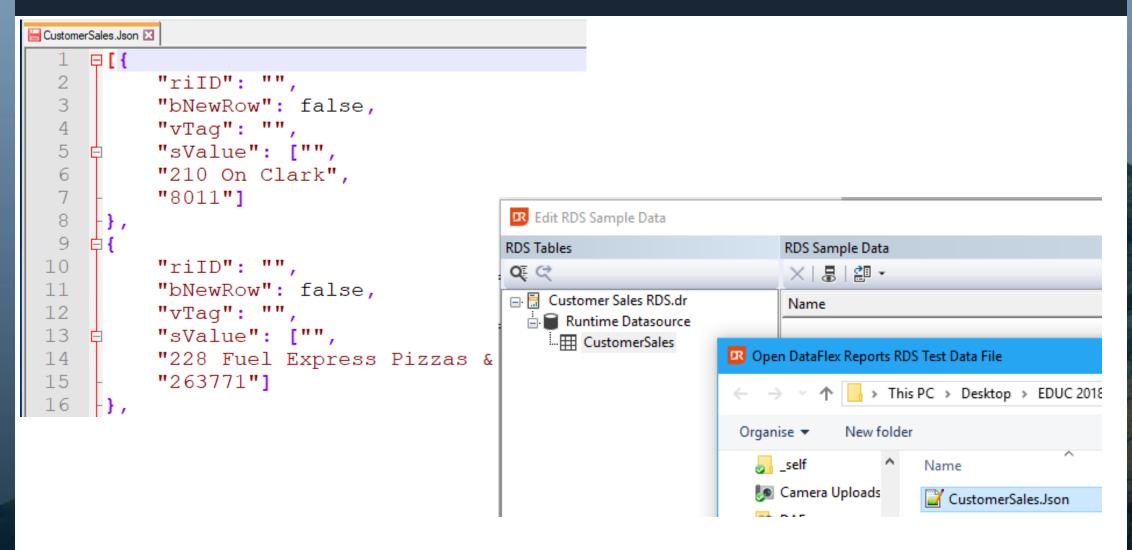
## Im- / Export RDS table struct and test data

- Table structure import & export
  - Useful if you want to create another report with a similar or identical RDS table structure
- Test data import & export
  - Useful for testing from DataFlex Reports Studio
- > File format is a JSON

## Im- / Export RDS table struct and test data

- Structure is the tDataSourceRow used for CodeJock Grids
  - Easiest way for handling and structure is known and documented
- Library comes with a function that helps writing the JSON test data file
  - Converts the Variant[][] array via a tDRDataSource[] array to a uChar[] array using the cJSONObject class

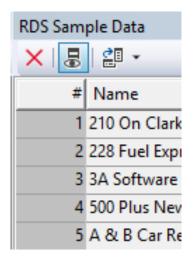
## Im- / Export RDS table struct and test data

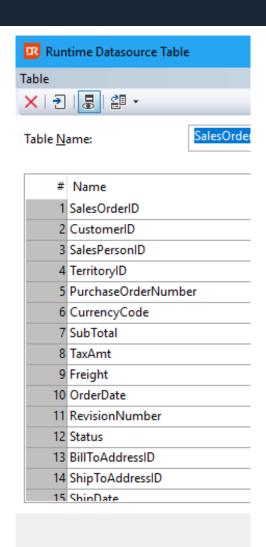


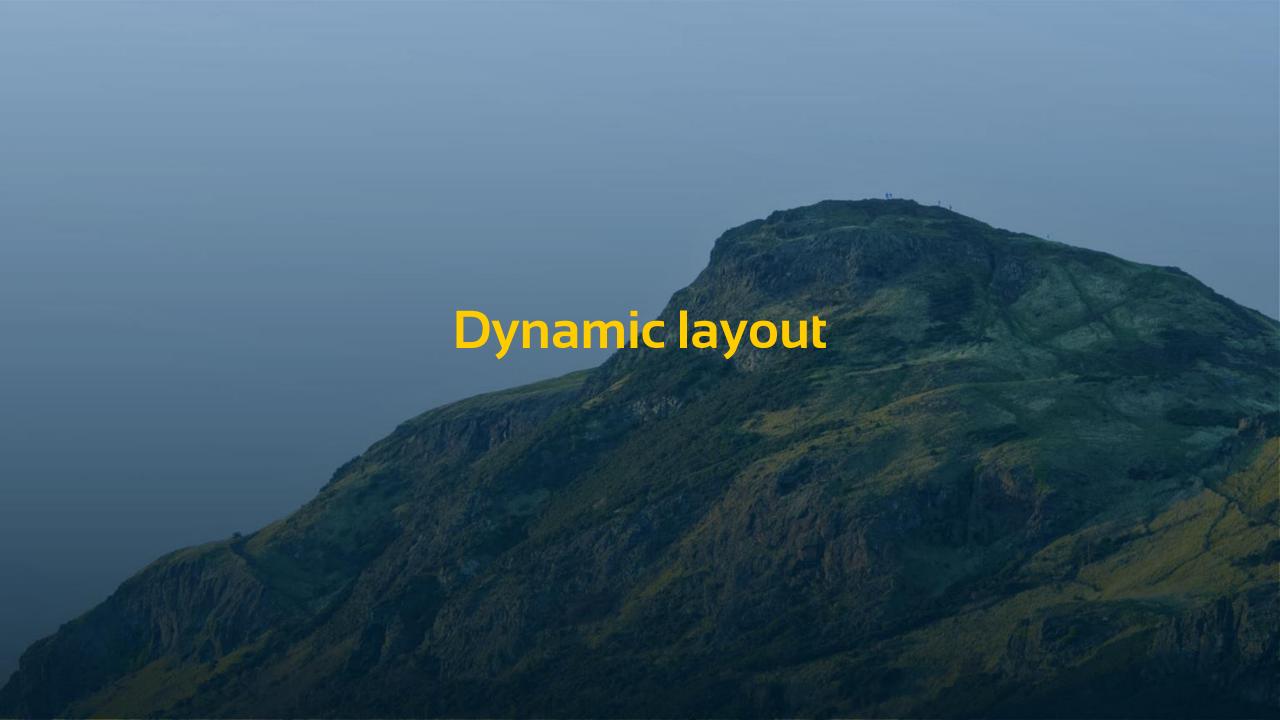


#### Hide / Show row numbers column

RDS Table structure and test data dialog extended with a button to enable row numbers in the grid

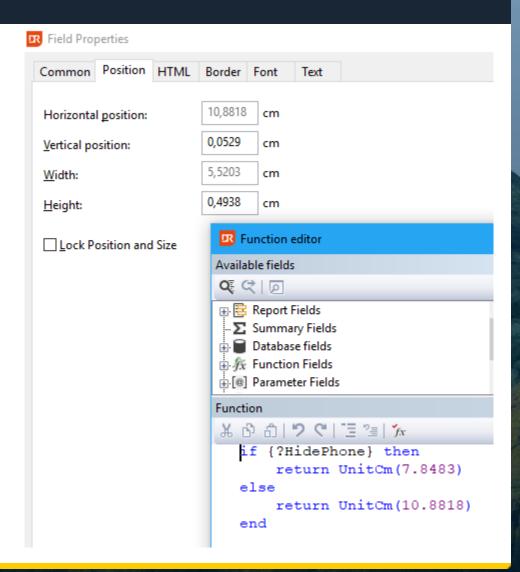






## **Dynamic layout**

- Change of size and position of an object via one of the UnitXX functions
  - UnitCM or UnitInch or UnitPt



# **Dynamic layout**

> To go from

Cust	tomer List		
Number	Name	Phone	E-Mail
4	Ace Manufacturers, Inc.	309-555-3215	ami@acemanfinc.com

> to

Customer List							
Number	Name	E-Mail					
4	Ace Manufacturers, Inc.	ami@acemanfinc.com					

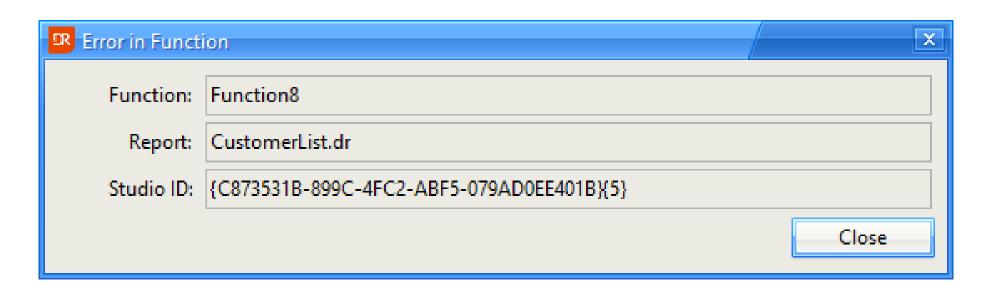
## **Dynamic layout**

- Using a parameter field name HidePhone
  - > Suppress the phone number value and header label when true
  - Move the location of the e-mail value and header label when true
  - Enlarge the width of the e-mail value and header label when true

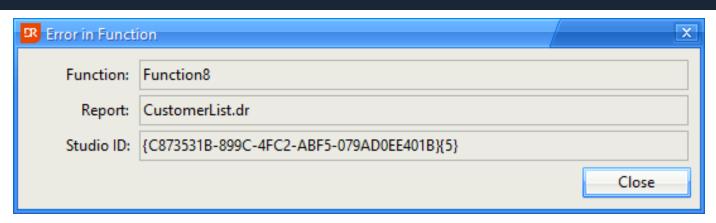


## Studio ID

- A v6.1 change worth mentioning
- Is shown in a dialog when a function in the report contains an error



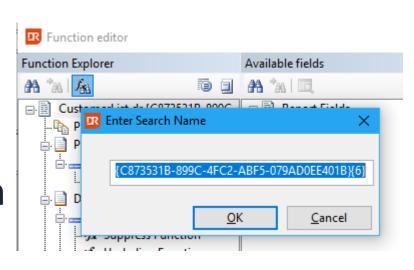
#### **Error in function**



- > The dialog shows that the report CustomerList.dr contains a function named Function8 which has an error
- The function name can be "Built-in Function". This will be the case when it is not user function (such as a suppress function)

### Error in function – What to do?

- Start the DataFlex Reports Studio
- Open the named report
- Open the function explorer dialog
- Click the "find by function ID" button
- Paste the Studio ID and press OK
  - The OK button at integration level copies the Studio ID to the clipboard
- > Fix the problem, save the report and run again





## **Version 6.2 Status**

- > Beta II available after EDUC
- Things to do after Beta II
  - > Translations
  - Improving documentation
  - More testing and bug fixing

