

Telerik Reporting

A Training course for All

29 June 2020

Prepared by GIS Co., Ltd.



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An aerial view of a city skyline, likely Manila, Philippines, featuring numerous high-rise buildings and a dense urban landscape. The entire image is overlaid with a semi-transparent teal color. The text 'Course Outlines' is centered in a large, white, sans-serif font.

Course Outlines

Course Outlines – Prerequisites



- [.NET Report Designers](#)
- [Report Viewer Controls](#)

1. Understanding the report lifecycle.
2. Standalone report designer.
3. Using reports in applications.
4. Creating the demo report (Page Header, Table, Chart, and Page Footer).
5. Report structure.
6. Data source components.
7. Adding interactivity to reports.

Please bring your own Laptop with minimum spec.:

- CPU 2.0 GHz
- 64-bit architecture
- 4 or more CPUs/cores
- At least 4 GB of memory/RAM
- At least 25 GB of disk space
- Windows 10, 8.1

Install program to your laptop with the following:

- [Telerik Standalone Report Designer v.14.1](#) ([Download](#))

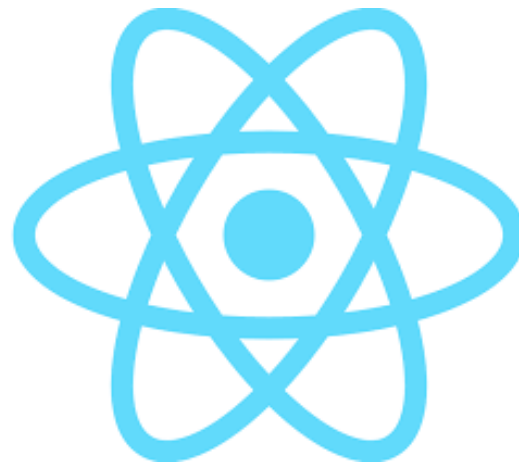
An aerial view of a dense city skyline, likely Manila, Philippines, featuring numerous high-rise buildings and a prominent skyscraper on the right. The entire image is overlaid with a semi-transparent teal color. The word "Introduction" is centered in white text.

Introduction



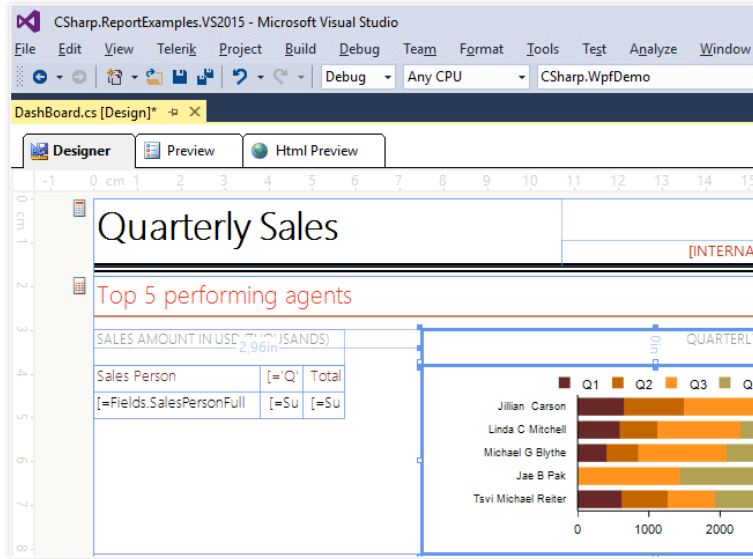
Complete .NET Reporting Solution

Web and Desktop Applications



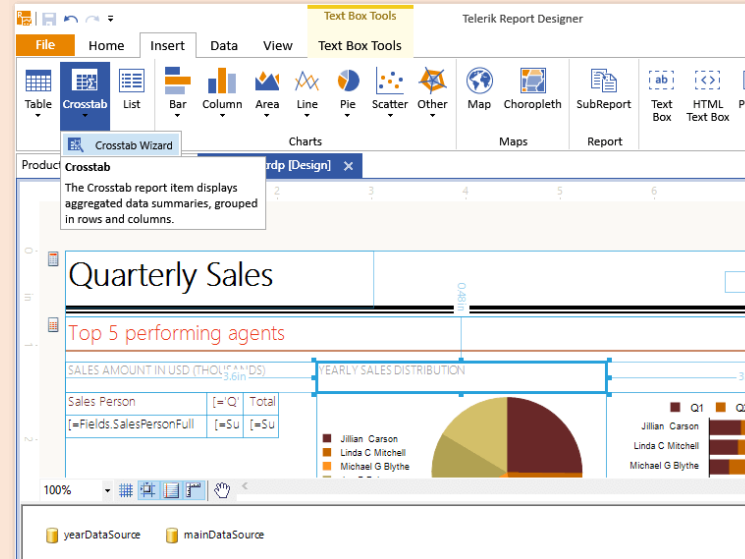
- ASP.NET Core
- Blazor
- ASP.NET MVC
- ASP.NET Web Forms
- HTML5/JS
- Angular
- React
- Vue
- WPF
- WinForms

Introduction – .NET Report Designers



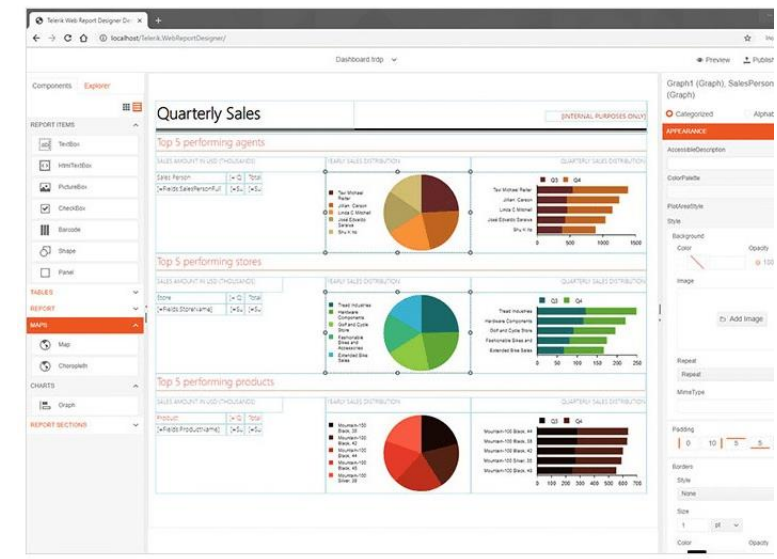
Visual Studio Report Designer

Developer-centric WYSIWYG report generation



Standalone Desktop Report Designer

Desktop based WYSIWYG report generation



Web Report Designer

Web-based WYSIWYG report generation

Introduction – Progress Telerik Reporting

- Report Viewer Controls - Create Once, Deliver Everywhere
- Bring Interactive Reports to Your Users
- Filter and Sort Data at Run-Time
- Export to 15-Plus Formats
- Print Reports
- Report Viewer Themes

The screenshot displays the Telerik Reporting environment. At the top, a data table shows quarterly sales for 2002, 2003, and 2004, with a 'GRAND TOTAL' column. Below the table is the 'Report Preview' interface, which includes a navigation pane, a 'Sales for Year' dropdown set to 2004, and an 'Export' menu with options like Acrobat (PDF) file, CSV, Excel, etc. The main report content shows 'Quarterly Sales 2004' and 'Bikes Sales Distribution By Region'. The regional distribution includes a map of the United States and Canada, and a 'TOP 12 STATES' bar chart showing sales volume for California, Washington, Texas, and British Columbia. At the bottom, there is a footer with the AdventureWorks logo and contact information, and a 'Theme' dropdown menu showing various report themes like OfficeBlack, OfficeBlue, etc.

Q4	Monthly Trend	Total	2002	2003	2004	GRAND TOTAL
11.7		20.2	92.7	590.3	568.8	1,272.1
1.9		3.4	3.1	13.0	10.1	29.7
1.5		2.7	9.4	21.8	17.4	51.2
			101.9	65.2	0.5	167.6

Quarterly Sales 2004

Bikes Sales Distribution By Region

REGION: United States, Canada
PERIOD: 2003, 2004

SALES VOLUME BY COUNTRY

TOP 12 STATES

- California
- Washington
- Texas
- British Columbia

Theme: VisualStudio2013_Blue

Order #: SO51081

AdventureWorks
275 Grove St, Suite 2-400, Newton, MA 02466
Phone: +1.888.365.2779
Fax: +1.617.249.2116

An aerial view of a city skyline, likely Manila, Philippines, featuring numerous high-rise buildings and a dense urban landscape. The entire image is overlaid with a semi-transparent teal color. The text "Download & Install" is centered in white, sans-serif font.

Download & Install

Download Trial

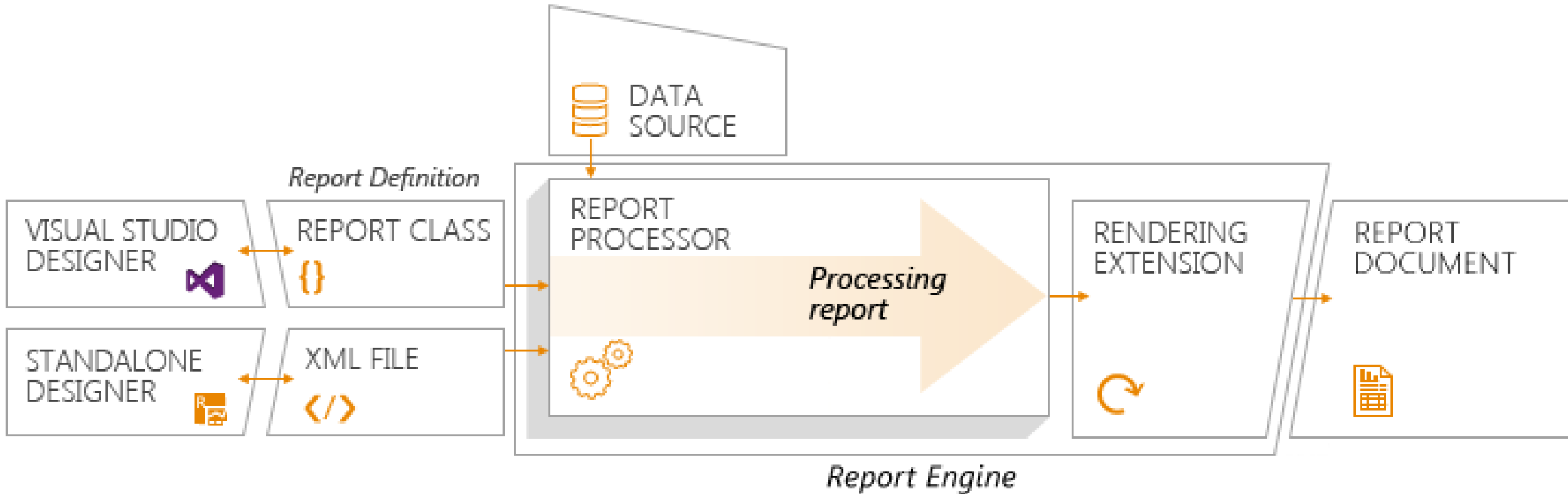
- [https://atlasx.cdg.co.th/share/telerik-reporting/trial/Telerik Reporting R2 2020 SP1 14 1 20 618 TRIAL.zip](https://atlasx.cdg.co.th/share/telerik-reporting/trial/Telerik%20Reporting%20R2%202020%20SP1%2014%201%2020%20618%20TRIAL.zip)

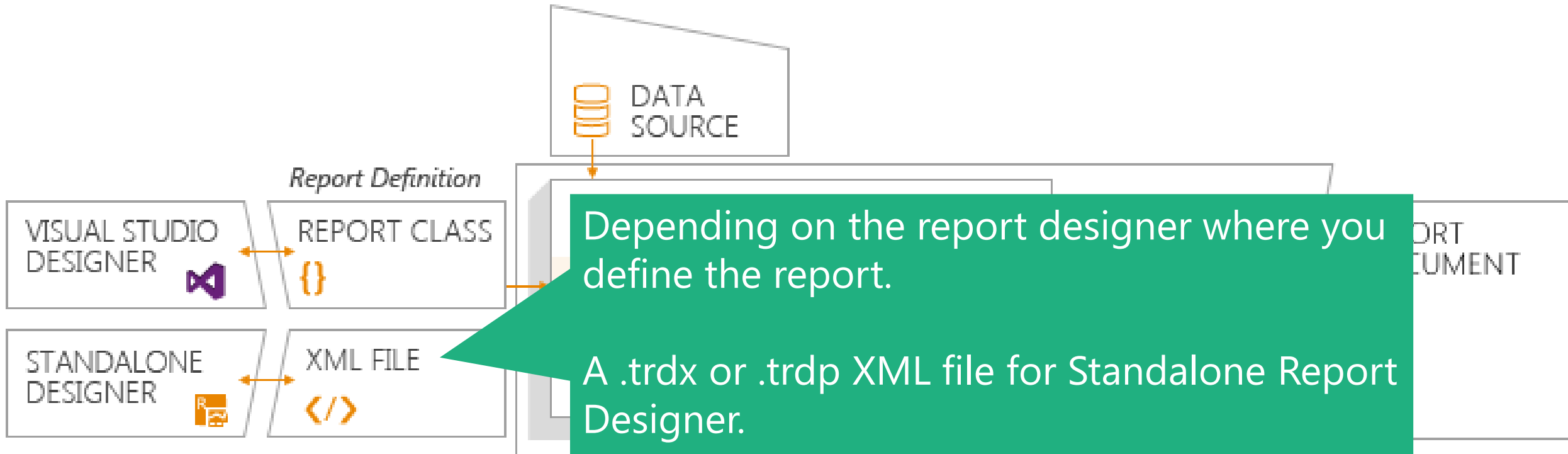
Install

- <https://docs.telerik.com/reporting/installation-system-requirements#installing-telerik-reporting>

An aerial view of a city skyline, likely New York City, with a prominent teal overlay. The image shows a dense cluster of skyscrapers and buildings, with the Freedom Tower (One World Trade Center) being the most prominent structure on the right side. The text "Report Lifecycle" is centered over the image in a white, sans-serif font.

Report Lifecycle

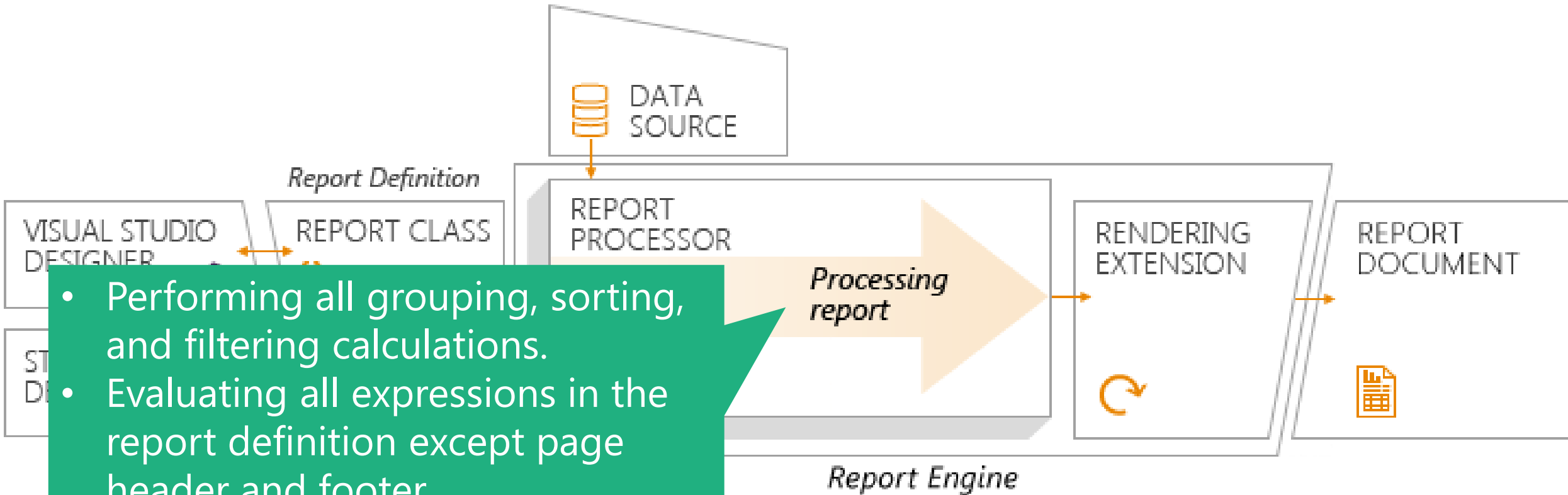




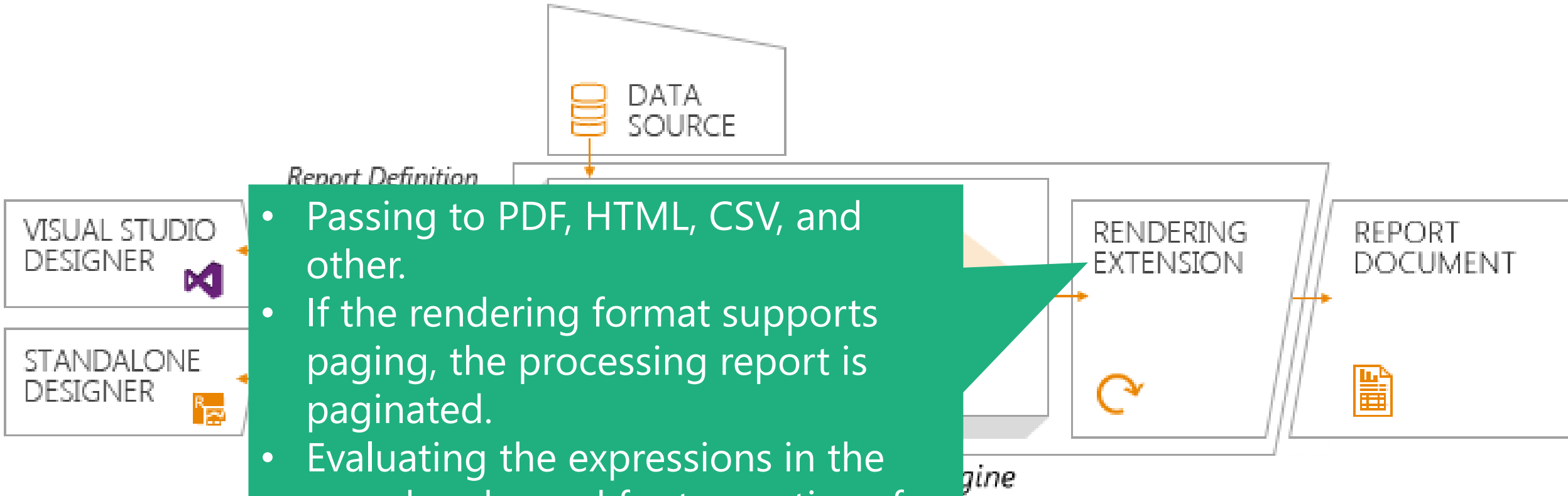
Depending on the report designer where you define the report.

A .trdx or .trdp XML file for Standalone Report Designer.

The XML can be stored as an XML definition and resources that are packaged in a .zip file (TRDP), in a plain XML format (TRDX).

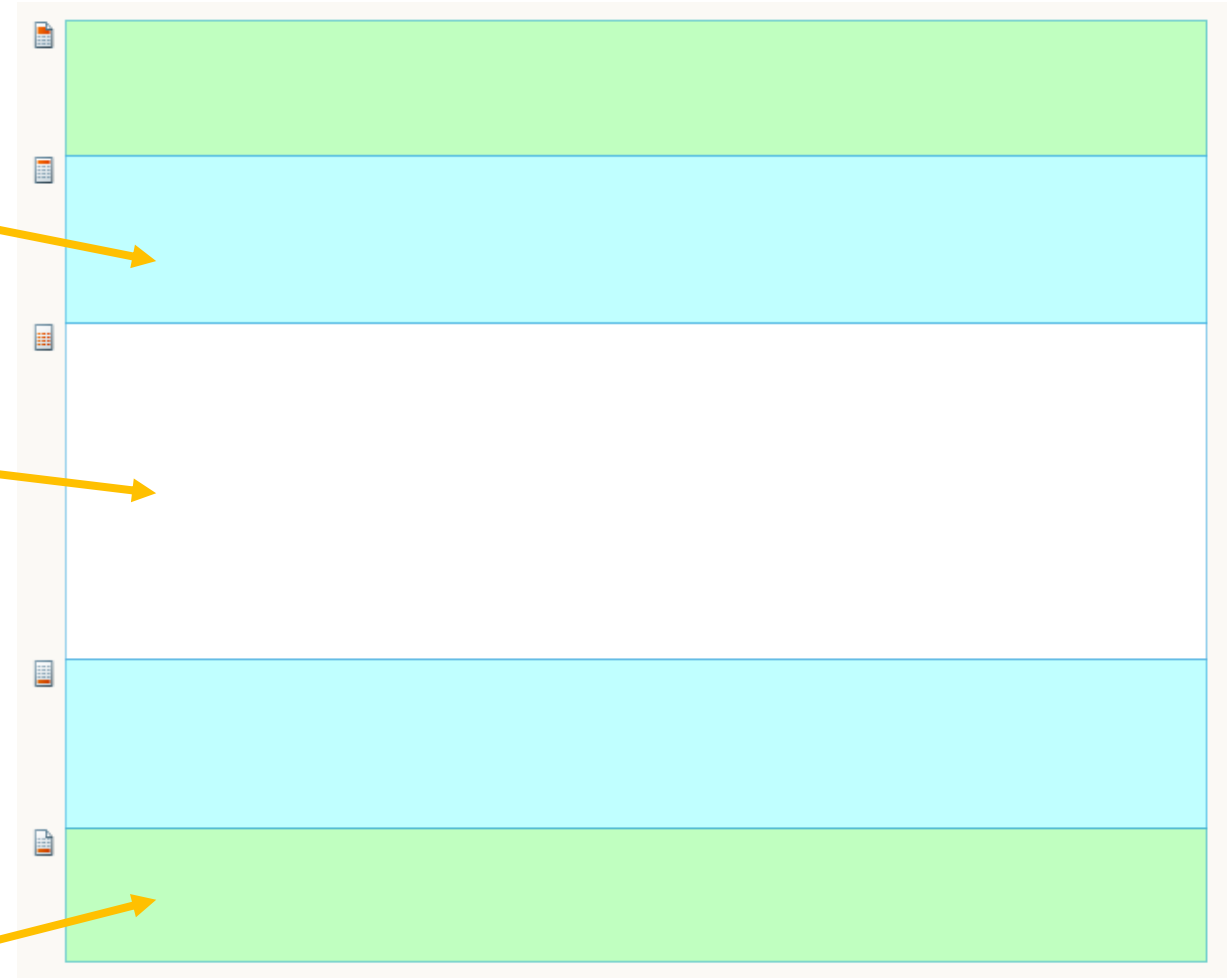


- Performing all grouping, sorting, and filtering calculations.
- Evaluating all expressions in the report definition except page header and footer.
- Binding data sources.
- Producing a processing report.



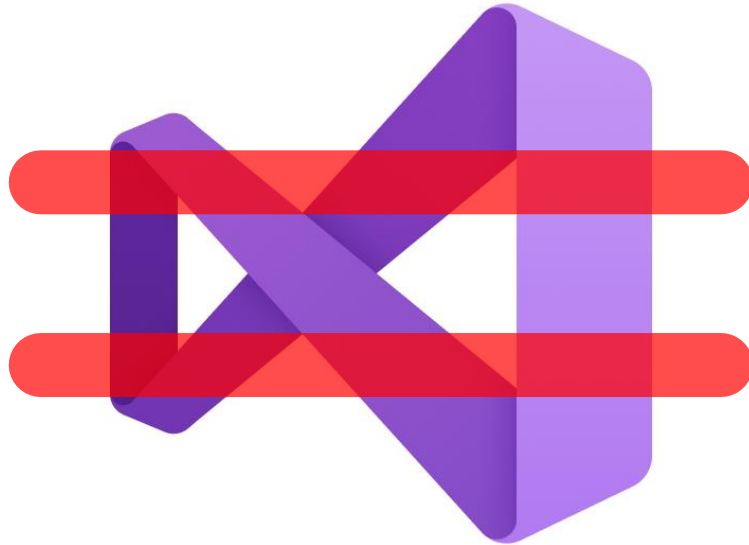
- Passing to PDF, HTML, CSV, and other.
- If the rendering format supports paging, the processing report is paginated.
- Evaluating the expressions in the page header and footer sections for every page.
- Rendering the report to a report document.

- Header, footer, group header, and group footer report sections–In expressions, use the data fields together with aggregate functions. By default, if an expression specifies a data field without a specified aggregate function, the report will use the **First()** aggregate function which returns the first record of the data source for the specified data field.
- Detail report sections–Expressions can contain data fields, functions, and, except for **PageNumber** and **PageCount**, all global objects.
- Page header and footer report sections–Expressions are evaluated on a later stage in the report lifecycle. The paging of the report is specific for the selected rendering format. While data binding occurs during the processing of the report, the paging of the report occurs during the rendering of the report. This means that expressions in the page and footer sections cannot include data fields or aggregate functions. The **PageNumber** and **PageCount** global objects are available only in these sections.

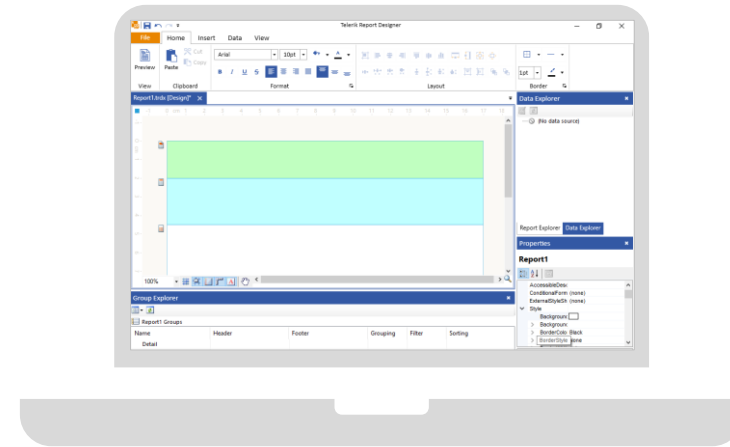


An aerial view of a city skyline, likely Manila, Philippines, featuring numerous skyscrapers and dense urban development. The image is overlaid with a semi-transparent teal color. The text 'Standalone Report Designer' is centered in white, sans-serif font.

Standalone Report Designer



Visual Studio
is **not required**



Reports are processed
on the client machine

Standalone Report Designer

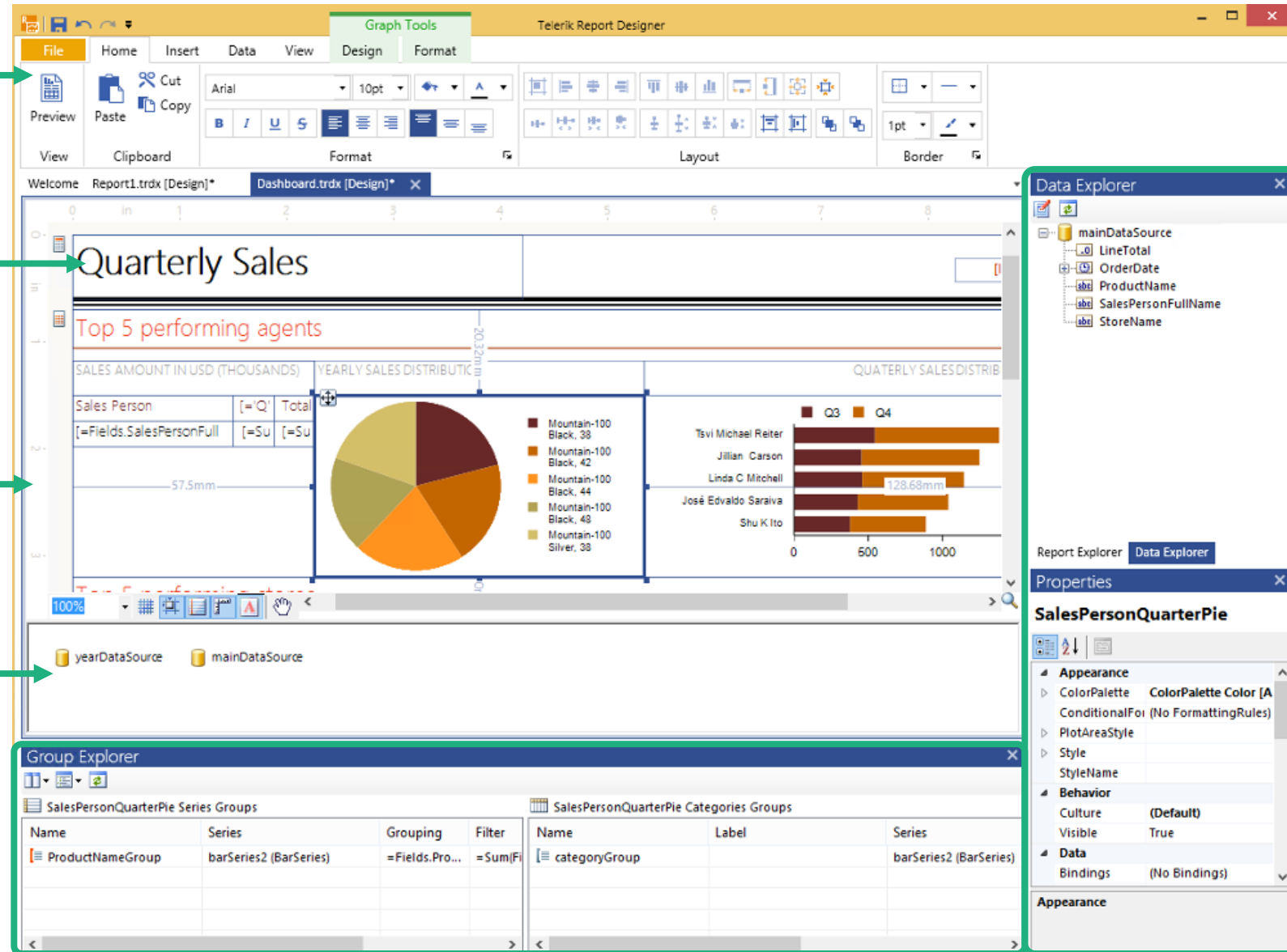


View Mode Buttons

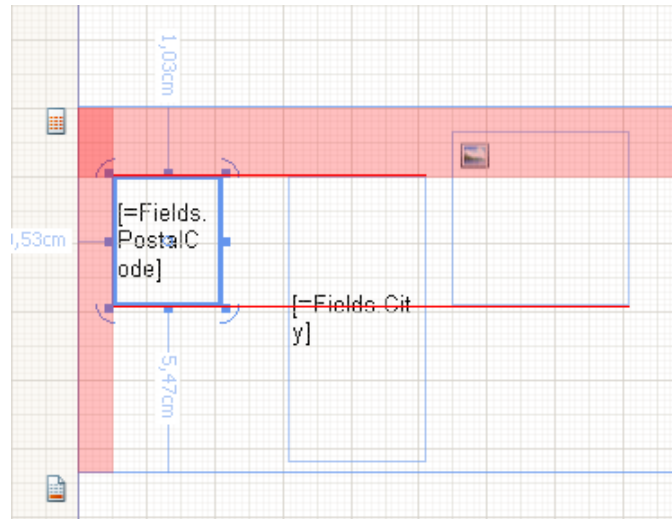
Report Sections

Rulers

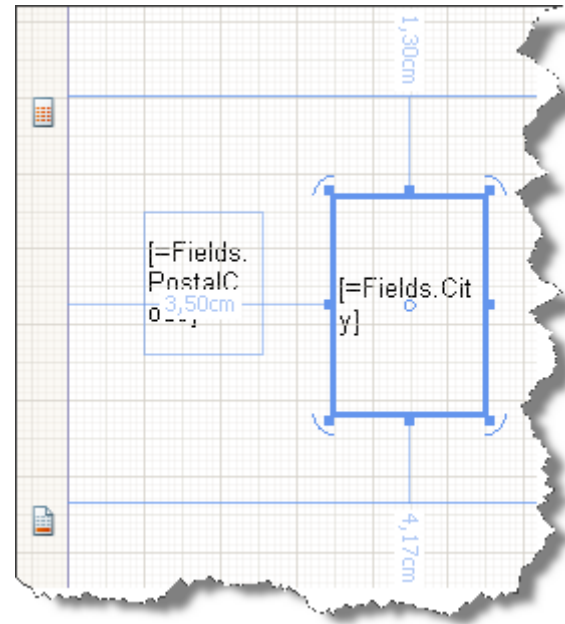
Component Tray



View tab



Show/hide the snap grid



Show/Hide Dimensions



Change the alignment of an element

Standalone Report Designer – Export Report Template



- ←
- New
- Open
- Save
- Save As ...
- Save All
- Export Template...**
- Close
- Close All
- Options
- Help
- Exit

New

Report Templates

- Blank Report
- Report Book
- Band Report Wizard
- Label Report Wizard
- Invoice Report Wizard
- Product Catalog Report Wizard
- Import Report Wizard

Data Presentation Templates

- Crosstab Wizard
- Table Wizard
- Graph Wizard
- Map Wizard
- Choropleth Wizard

Export Template Wizard

Select Template Options

Template name:
Nostra Province Population Wizard
C:\Users\005230\Documents\Telerik Report Designer\Templates\Nostra Province Population Wizard.trtx

Template description:
[Empty text box]

Preview image: (Recommended size: 64x64)
[Empty image box]

Start the field mapping wizard each time when the current template is opened.

< Back Next > **Finish >>|** Cancel

When you try to open the report, it throws the following error:

```
Telerik.Reporting.Xml.XmlSerializerException: An error has occurred during xml
serialization. The xml serializer cannot resolve type with name: Report.
```

Solution

- Find the data schema (XML version).
 - [See – How to: Identify the report definition schema version](#)
- Replace the current schema for your Telerik Reporting version.
 - [See – XML Schema Versioning](#)
- Trying to open.

```
<> Nostra Province Population Wizard.trdx X
E: > Projects > AtlasX > Telerik Reporting > Templates > <> Nostra Province Population Wizard.trdx
1  <?xml version="1.0" encoding="utf-8"?>
2  <Report Width="17cm" DocumentName="Nostra Province Population" Name="Nostra Pro
3  xmlns="http://schemas.telerik.com/reporting/2019/2.0">
4  <Items>
5  <PageHeaderSection Height="2cm" Name="pageHeaderSection1" />
6  <DetailSection Height="5cm" Name="detailSection1" />
7  <PageFooterSection Height="2cm" Name="pageFooterSection1" />
8  </Items>
9  <PageSettings PaperKind="A4" Landscape="False">
10 <Margins>
11 <MarginsU Left="2cm" Right="2cm" Top="2cm" Bottom="2cm" />
```

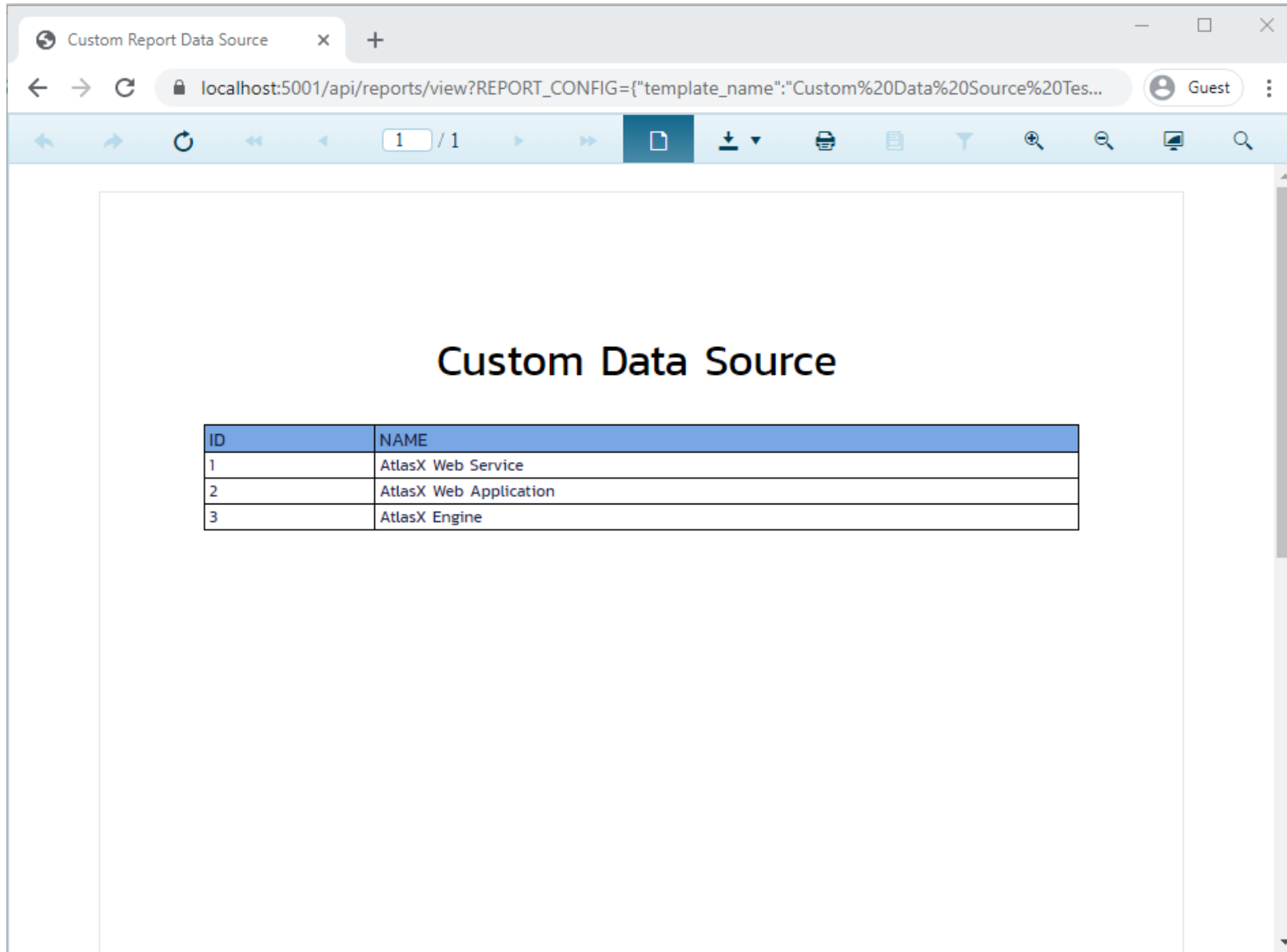
Using Reports in AtlasX Web Service



```
114
115 // Configure dependencies for ReportsController.
116 services.TryAddSingleton<IReportServiceConfiguration>(sp =>
117     new ReportServiceConfiguration
118     {
119         ReportingEngineConfiguration = sp.GetService<IConfiguration>(),
120         HostAppId = "AtlasXWebService",
121         Storage = new FileStorage(),
122         ReportSourceResolver = new UriReportSourceResolver(
123             Path.Join(
124                 sp.GetService<IWebHostEnvironment>().ContentRootPath,
125                 "Report",
126                 "Templates"
127             )
128         )
129     });
130
```

```
53     private async Task<IActionResult> ViewReport()
54     {
55         // Convert http request content to query parameter.
56         QueryParameter queryParameter = new QueryParameter(Request);
57
58 >         if (!queryParameter.ContainsKeyAndValueIsNotEmpty("REPORT_CONFIG")) ...
62
63         // Deserialize json string to object model.
64         Stream reportConfigStream = queryParameter["REPORT_CONFIG"].ToStream();
65         ReportConfig reportConfig = await JsonSerializer.DeserializeAsync<ReportConfig>(reportConfigStream);
66
67 >         if (string.IsNullOrEmpty(reportConfig.TemplateName)) ...
71
72         ViewData["TemplateName"] = reportConfig.TemplateName;
73         ViewData["ReportViewerTitle"] = reportConfig.ReportViewerTitle;
74
75         if (queryParameter.ContainsKeyAndValueIsNotEmpty("REPORT_PARAMS"))
76         {
77             ViewData["Parameters"] = queryParameter["REPORT_PARAMS"].ToString();
78         }
79
80         return View("ViewReport");
81     }
82
```

```
50 // Convert parameters.
51 Object.keys(parameters).forEach(function (key) {
52     if (typeof parameters[key] == 'object') {
53         parameters[key] = JSON.stringify(parameters[key]);
54     } else {
55         parameters[key] = parameters[key].toString();
56     }
57 });
58
59 var reportOptions = {
60     serviceUrl: "/api/reports/",
61     reportSource: {
62         report: templateName,
63         parameters: parameters
64     },
65     viewMode: telerikReportViewer.ViewModes.PRINT_PREVIEW,
66     scaleMode: telerikReportViewer.ScaleModes.SPECIFIC,
67     scale: 1.0,
68     enableAccessibility: false,
69     sendEmail: {
70         enabled: false
71     }
72 };
73
74 $("#reportViewer").telerik_ReportViewer(reportOptions);
```



The screenshot shows a web browser window with the following details:

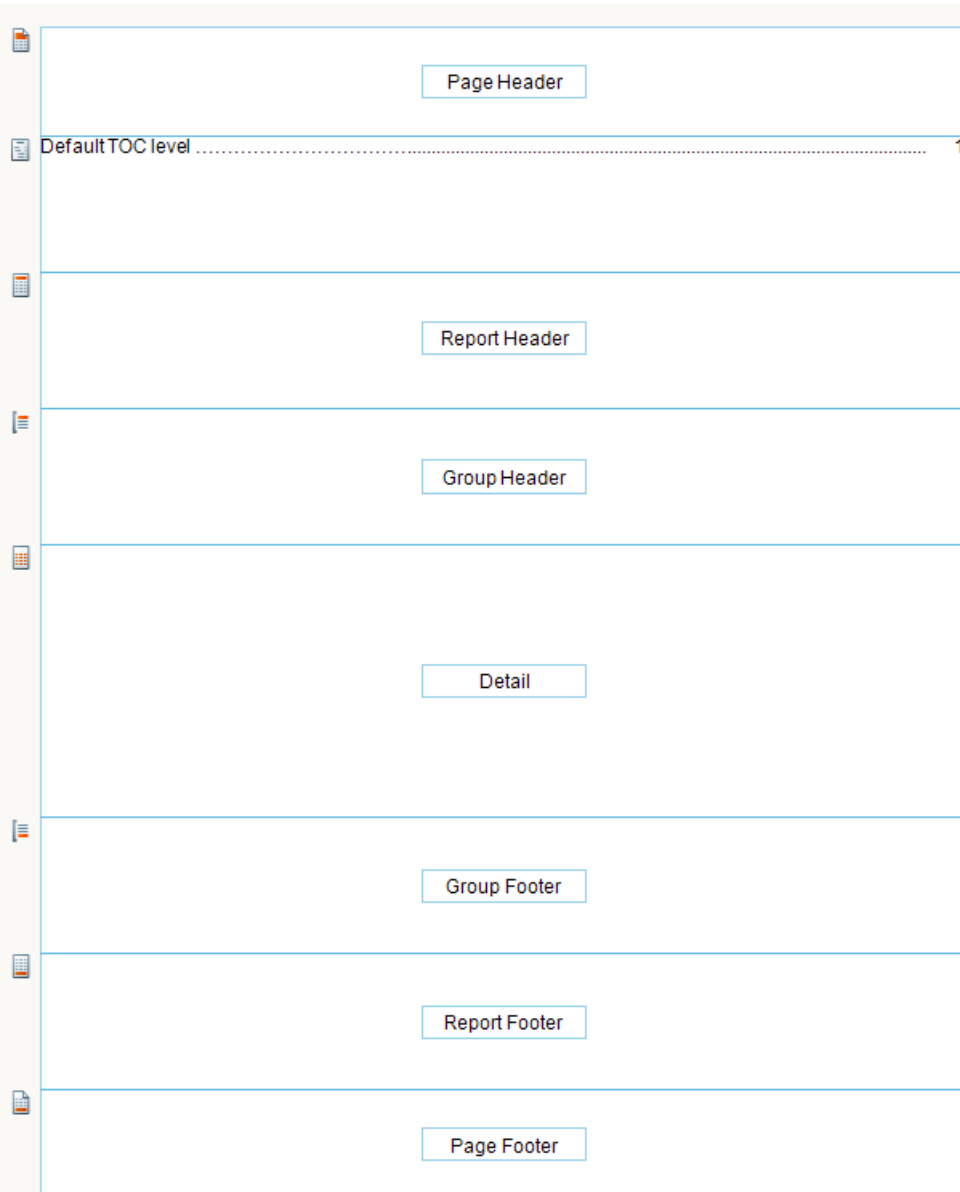
- Tab: Custom Report Data Source
- Address Bar: localhost:5001/api/reports/view?REPORT_CONFIG={"template_name":"Custom%20Data%20Source%20Tes..."} (User: Guest)
- Navigation Bar: Includes back, forward, refresh, and page navigation (1 / 1) buttons.
- Report Title: Custom Data Source
- Table:

ID	NAME
1	AtlasX Web Service
2	AtlasX Web Application
3	AtlasX Engine

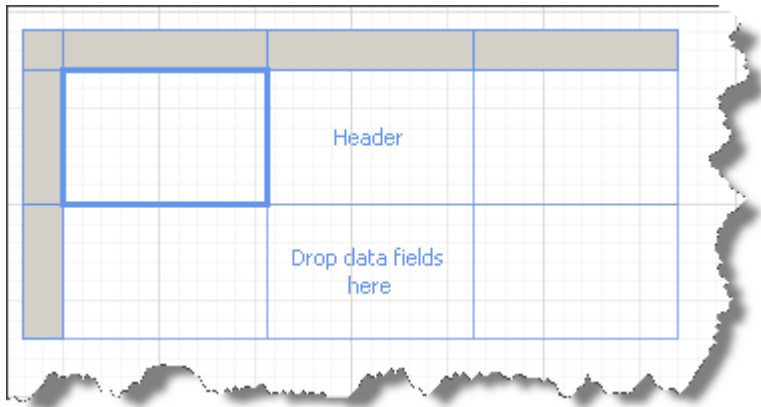
An aerial view of a dense city skyline, likely Manila, Philippines, featuring numerous high-rise buildings and a prominent skyscraper on the right. The image is overlaid with a semi-transparent teal color.

Report Structure

Report Structure



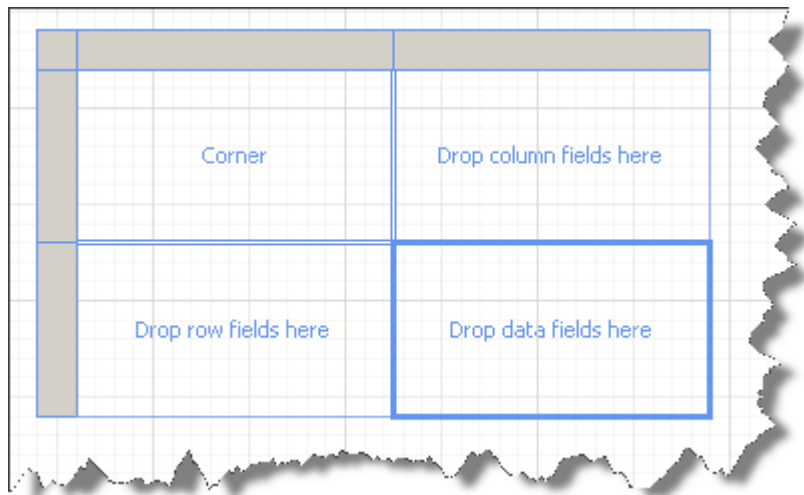
- Page Header**
 - Printed at the top of every page.
 - Repeat the report title on every page.
- Table of Contents (TOC)**
 - Provides a set of navigational links to report items.
 - Displays the page numbers where they can be found.
- Report Header**
 - Printed just once, at the beginning of the report.
 - The Report Header will be rendered after Page Header.
- Group Header**
 - Printed at the beginning of each new group of records.
 - Use the group header to print the group name.
- Detail**
 - Printed once for every row in the data source.
 - Place the report items that constitute the main body of the report.
- Group Footer**
 - Printed at the end of each group of records.
 - Use a group footer to print summary information for a group.
- Report Footer**
 - Printed just once, at the end of the report.
 - The Report Footer will be rendered before Page Footer.
- Page Footer**
 - Printed at the end of every page.
 - Use a page footer to print page numbers or per-page information.



Header		
		Drop data fields here

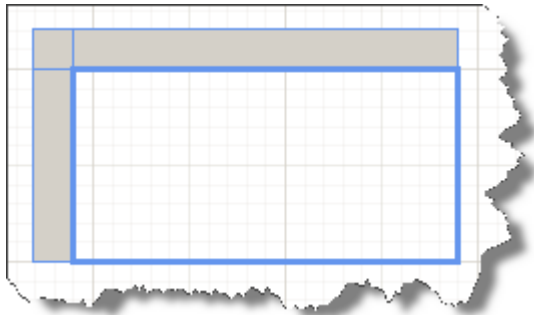
Table

- Use a table item to display detail data, organize the data in row groups, or both.
- The Table contains three columns with a table header row and a details row for data.



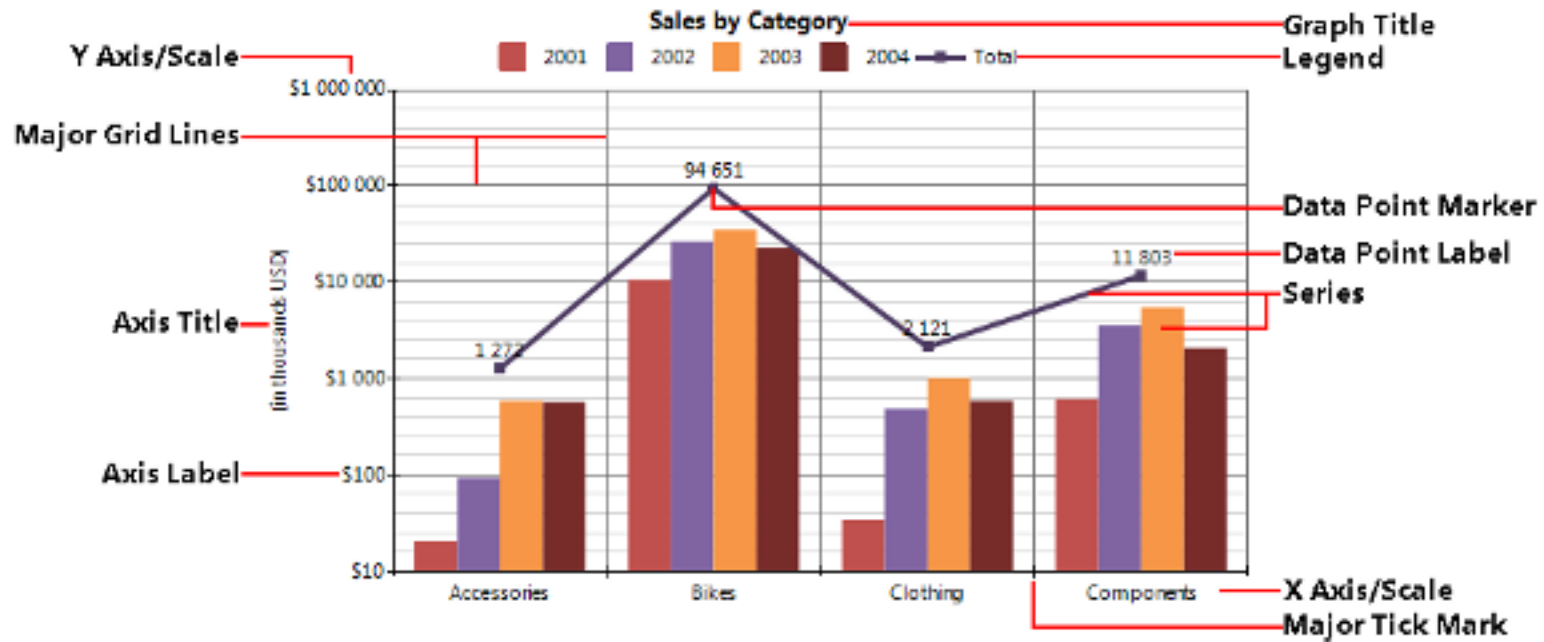
CrossTab

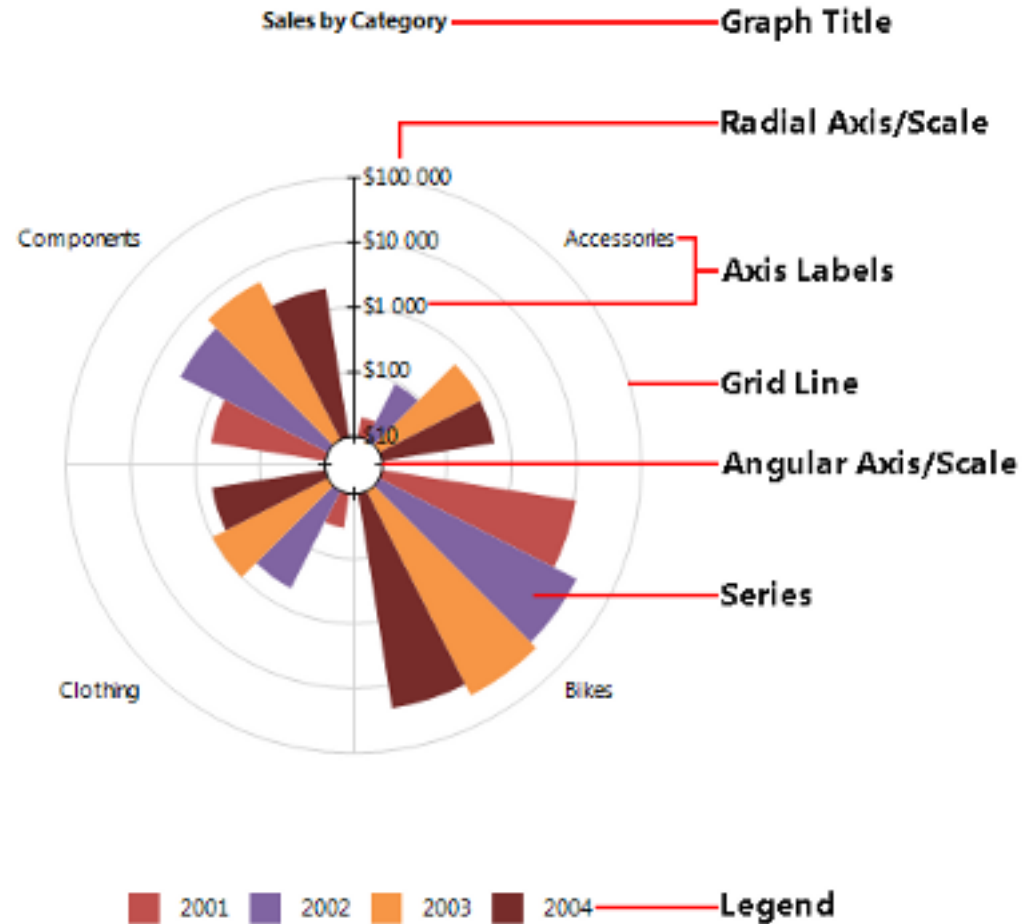
- Use a CrossTab template to display aggregated data summaries, grouped in rows and columns.
- The number of rows and columns for groups is determined by the number of unique values for each row and column groups.

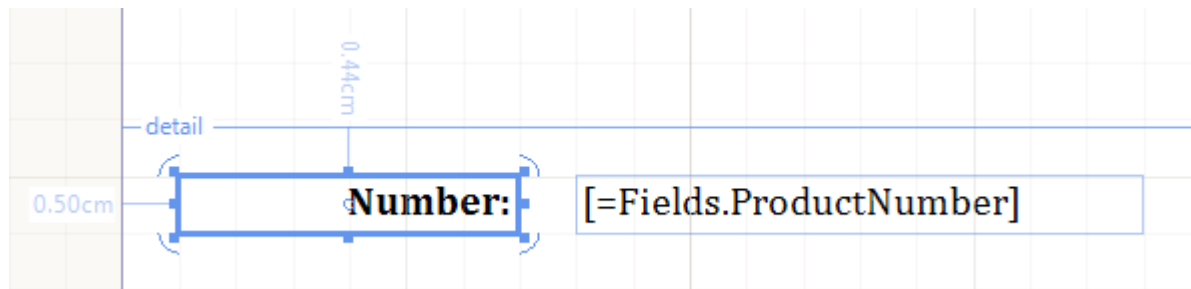


List

- Use a list item to create a free-form layout.
- You are not limited to a grid layout, but can place fields freely inside the list.



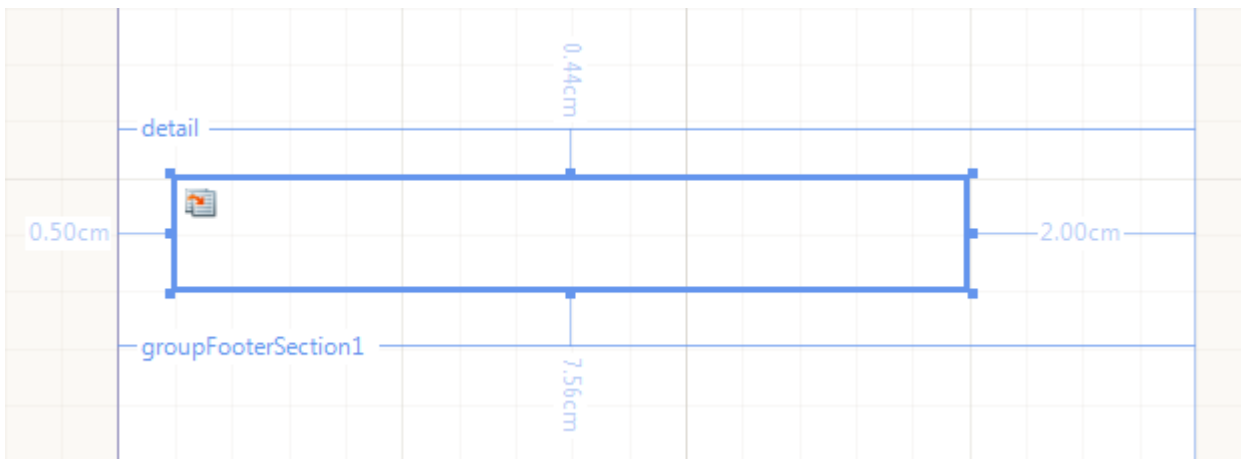




TextBox

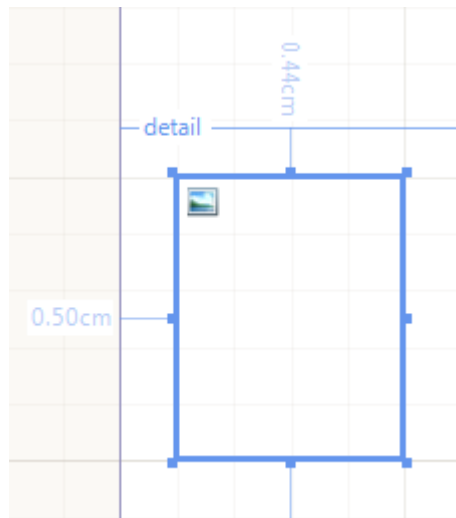
- Used to display text on a report.
- Every cell in a Table or CrossTab also contains a TextBox
- The expressions in a TextBox can contain literal text, point to a database field or calculate data.

SubReport

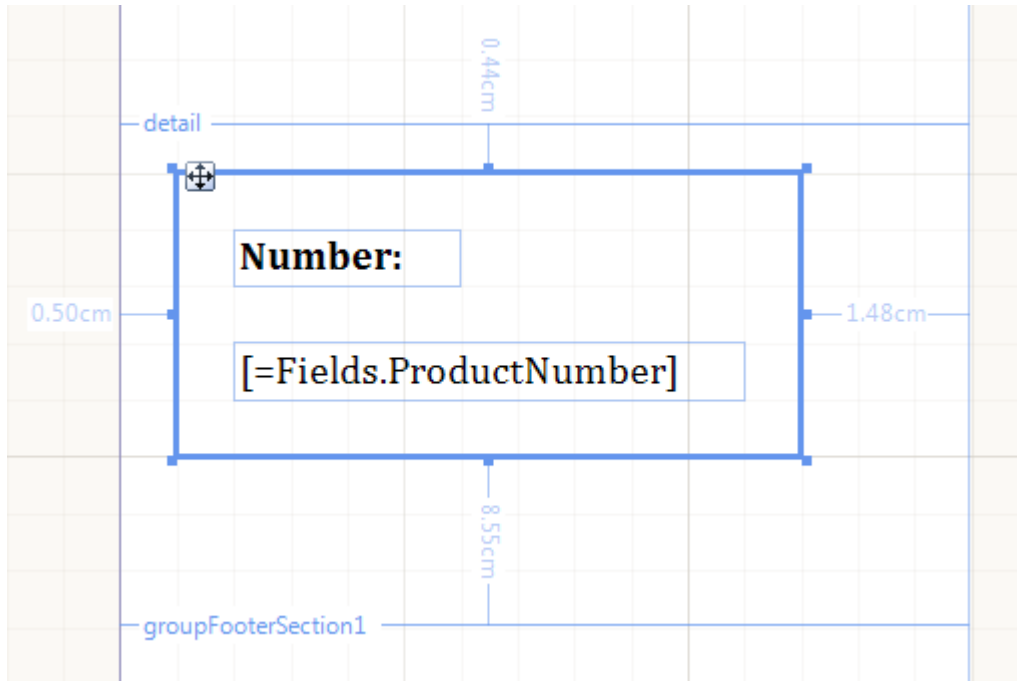


- Display one report within another report.
- The screenshot shows a SubReport report item at design-time.
- Pass parameters to SubReports using the Edit Parameters collection.

PictureBox

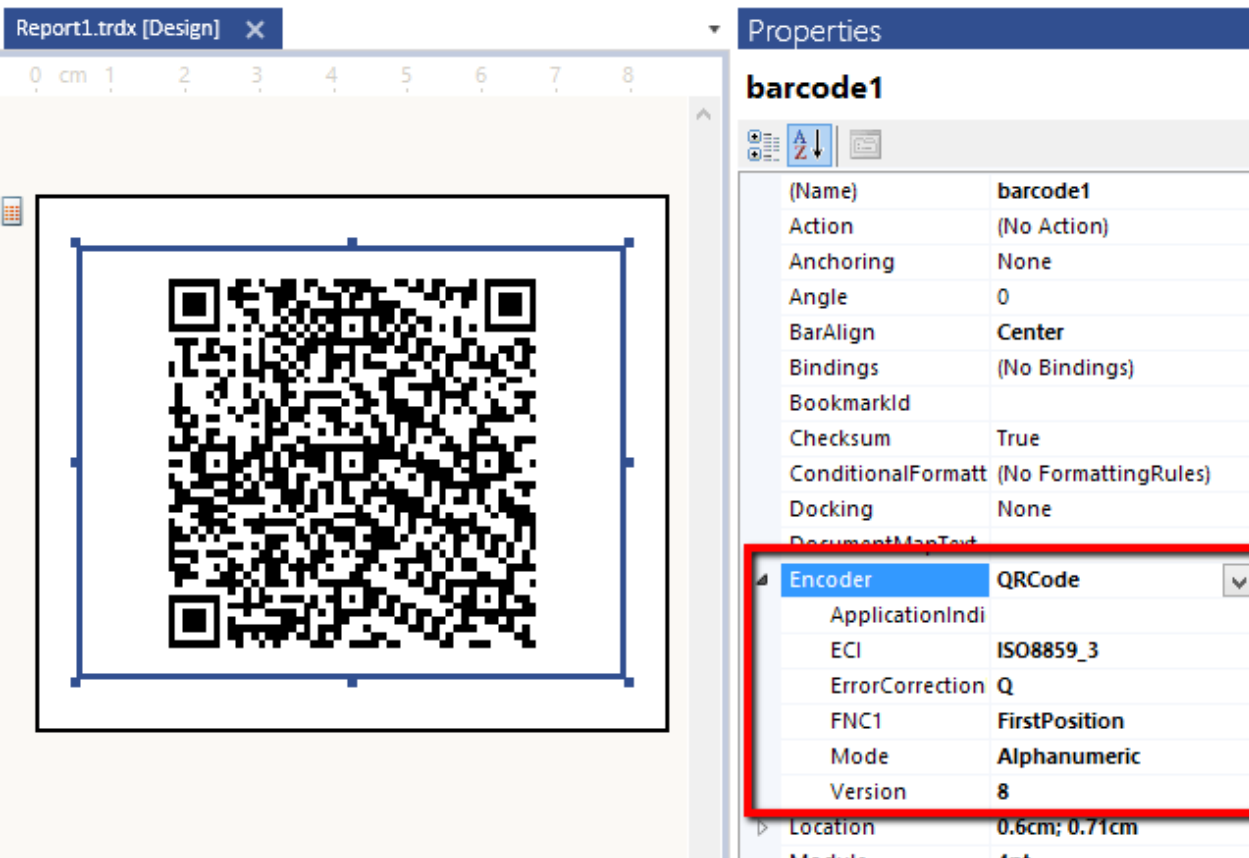


- Support binary image data, a URI that points to an image file, or a string representing a Base64-encoded image.
- The **clipping and positioning** of an image in the display area of a PictureBox item is controlled by its Sizing property.



Panel

- The Panel report item is not associated with data and is used as a container for other items, usually to group/separate multiple report items by some criteria.



Barcode

- The Barcode item is used for automatic barcode generation directly from a numeric or character data.

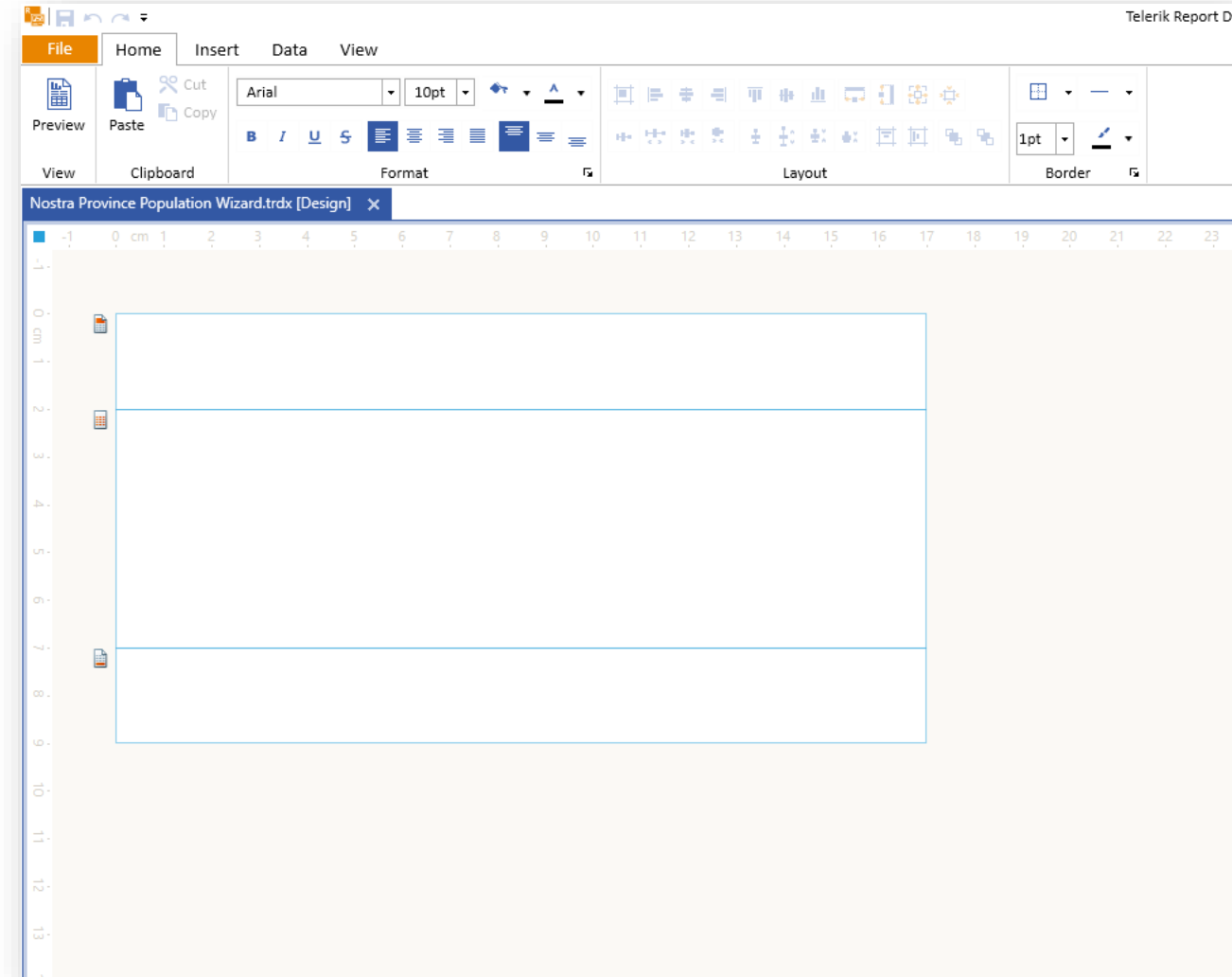
An aerial view of a dense city skyline, likely Manila, Philippines, featuring numerous high-rise buildings and a prominent skyscraper on the right. The entire image is overlaid with a semi-transparent teal color.

Creating the Demo Report

Demo Report – Create a new report



1. Navigate to the installation folder. For example, `C:\Program Files(x86)\Progress\Telerik Reporting R1 2020\Report Designer`.
2. Run the Standalone Designer (`Telerik.ReportDesigner.exe`).
3. Click **New** > **Blank Report** and choose a destination for saving the report.



Setting the Header and the Title

1. Click `pageHeaderSection`.
2. From the bar, select `Insert` to add the title. Click `TextBox` to automatically place the `TextBox` in the header.
3. From the `Properties` grid, select the `Font` option to change the font of the title.
4. Change the `pageHeaderSection` style.

Adding the Logo

1. Go to `Insert` and select `PictureBox`.
2. Include the desired picture through the `Value` property. If you need to adjust the size of the picture, use the `Sizing` property.

Adding the WebServiceDatasource

1. Select **Data** > **Web Service Data Source**.
2. In **Use Web Service Request** tab.
 - Service URL:
<https://atlasx.cdg.co.th/axws-demo/api/appdata>
 - Method: **Get**
 - Data Selector: **data**
3. Click **Next**.

Configure Web Service Data Source - webServiceDataSource1

Configure data retrieval

Setup the properties of the HTTP request and response which will retrieve data from the web service or enter data as inline text or file.

Use Web Service Request | Use Inline Data String | Use External Data File

Service URL:

Authentication Type:

Method:

Body:

Response

Encoding:

Data Format:

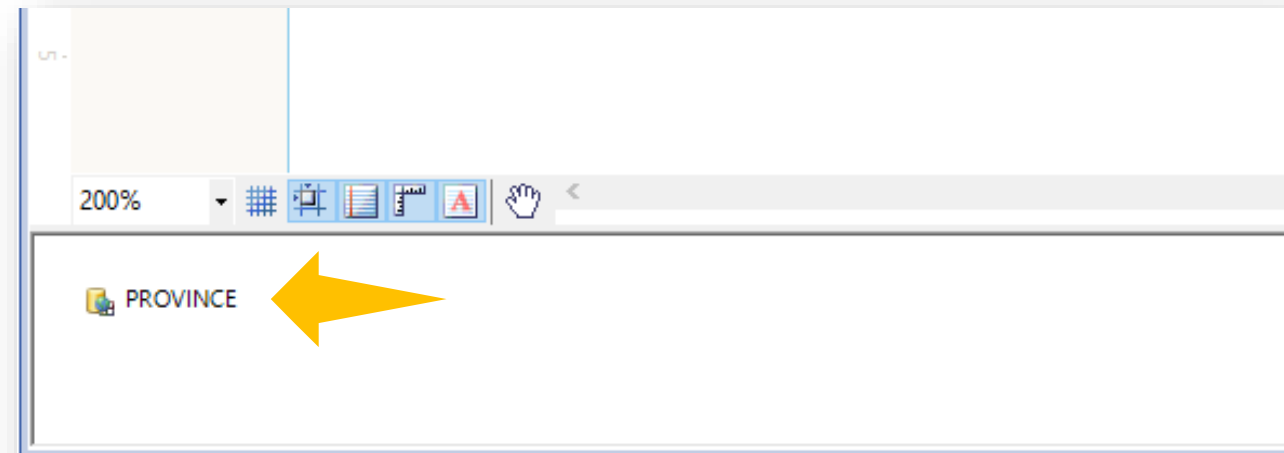
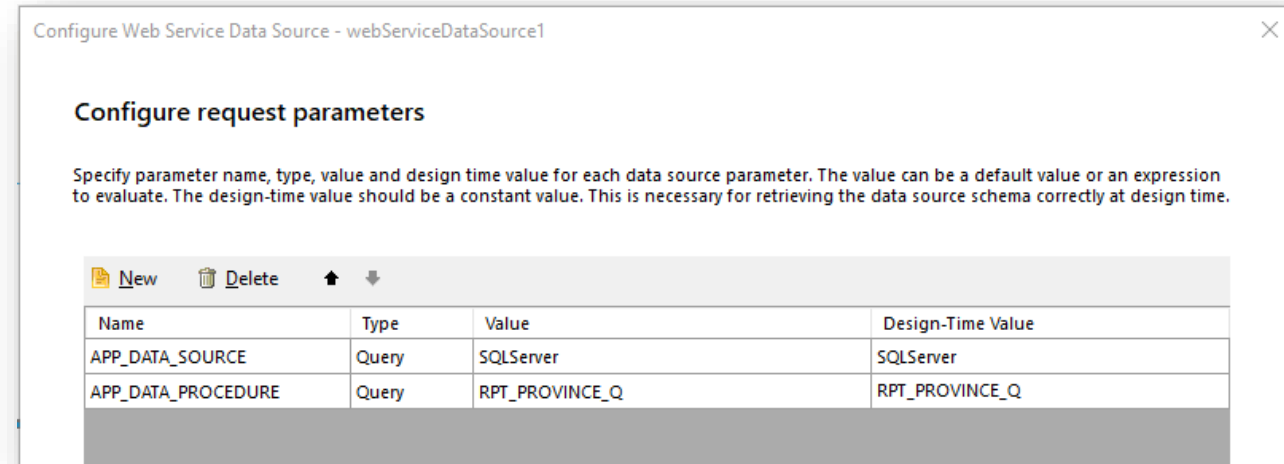
Data Selector:

* Service URL or data as file/inline text is required.

```
{
  "success": true,
  "total": 77,
  "message": "",
  "data": [
    {
      "PROV_CODE": "10",
      "PROV_NAMT": "กรุงเทพมหานคร",
      "MALE": 2682477,
      "FEMALE": 2998961,
      "TOTAL": 5681438,
      "HOUSE": 2885552
    },
    {
      "PROV_CODE": "11",
      "PROV_NAMT": "สมุทรปราการ",
      "MALE": 627493,
      "FEMALE": 683273,
      "TOTAL": 1310766,
      "HOUSE": 655631
    },
    {
      "PROV_CODE": "12",
      "PROV_NAMT": "นนทบุรี",
      "MALE": 574500,
      "FEMALE": 655235,
      "TOTAL": 1229735,
      "HOUSE": 667539
    },
    ...
  ]
}
```

Adding the WebServiceDatasource

4. Click **New** and input the following parameters:
 - APP_DATA_SOURCE = SQLServer
 - APP_DATA_PROCEDURE = RPT_PROVINCE_Q
5. Click **Next**.
6. Click **Download** to preview data or **Finish** to close wizard.
7. From the grid with the properties, change the name of the data source to **PROVINCE** so you can later refer it and render its data in the report.



Group Explorer

- Nostra Province Population Wizard Groups

Creating the Table

1. Click the [detailSection](#).
2. From the bar, select [Insert](#).
3. Select [Table](#) > [Table Wizard](#) > [PROVINCE](#) data source.
4. On the screen that loads, mark all columns and drag them to the [Table Columns](#). Click [Next](#).
5. From the window that opens, select a predefined style for your table.
6. Click [Next](#) and [Finish](#).

7. Apply some Styling.
8. Add the title of the table.



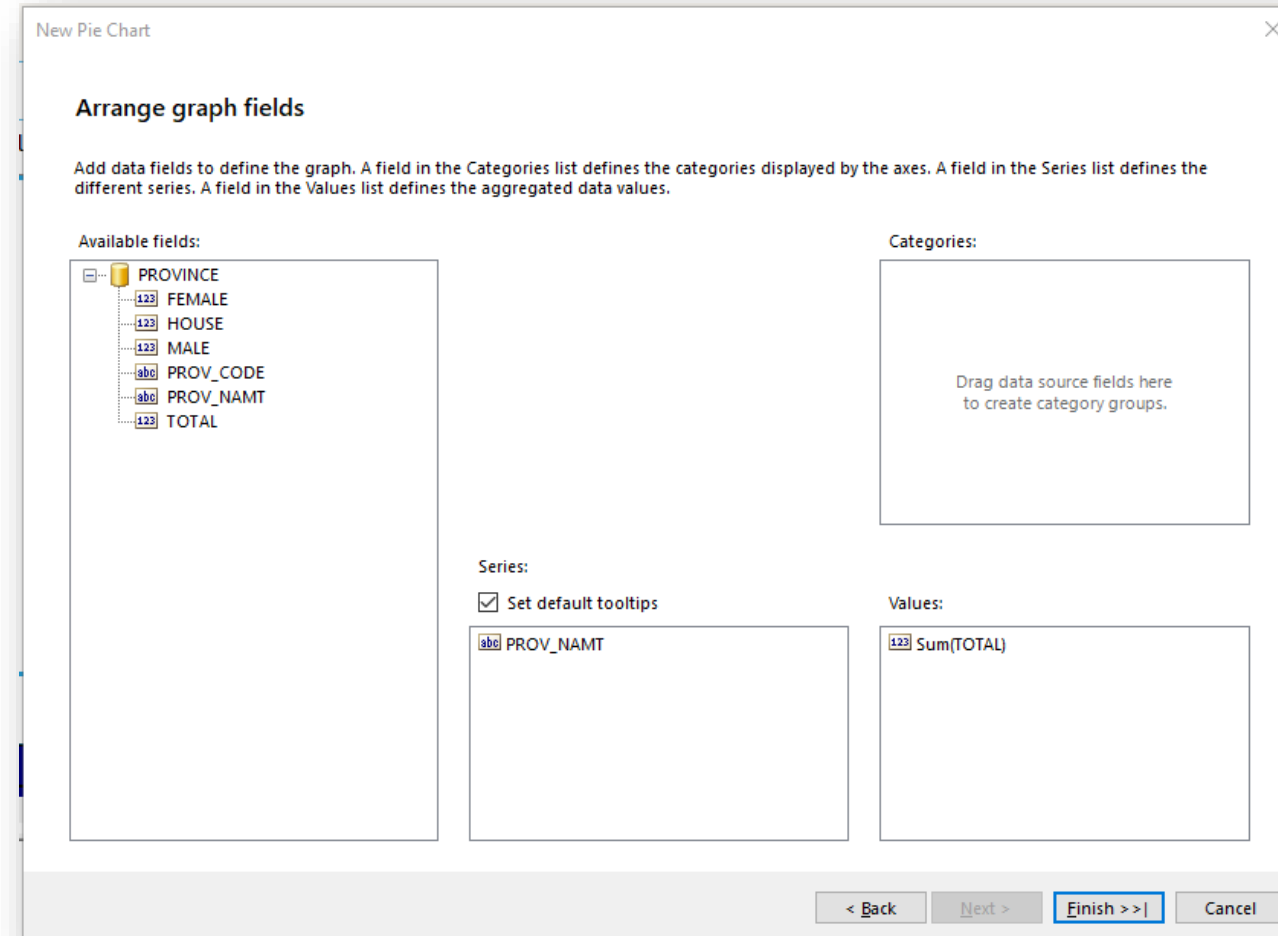
AtlasX Framework Demo

รายงานแสดงจำนวนประชากร จำแนกตามจังหวัด

ตารางจำนวนประชากรและครัวเรือน

ลำดับ	จังหวัด	จำนวนประชากร			จำนวนครัวเรือน
		ชาย	หญิง	รวม	
1	กรุงเทพมหานคร	2,682,477	2,998,961	5,681,438	2,885,552
2	สมุทรปราการ	627,493	683,273	1,310,766	655,631
3	นนทบุรี	574,500	655,235	1,229,735	667,539
4	ปทุมธานี	536,033	593,082	1,129,115	585,814
5	พระนครศรีอยุธยา	392,083	421,769	813,852	316,086
6	อ่างทอง	134,830	146,357	281,187	97,617
7	ลพบุรี	379,618	377,655	757,273	288,416
8	สิงห์บุรี	100,132	109,956	210,088	75,769
9	ชัยนาท	158,773	170,949	329,722	122,391
10	สระบุรี	316,489	325,551	642,040	266,957
11	ชลบุรี	738,943	770,182	1,509,125	985,469
12	ระยอง	349,775	361,461	711,236	457,833
13	จันทบุรี	261,887	272,572	534,459	231,087
14	ตราด	114,140	115,509	229,649	103,887

1. To reveal the report header, right-click outside the report and select **Report Header**.
2. Select **Insert > Pie > PROVINCE**.
3. Drag **PROV_NAMT** to Series.
4. Drag **TOTAL** to Values.



New Pie Chart

Arrange graph fields

Add data fields to define the graph. A field in the Categories list defines the categories displayed by the axes. A field in the Series list defines the different series. A field in the Values list defines the aggregated data values.

Available fields:

- PROVINCE
 - FEMALE
 - HOUSE
 - MALE
 - PROV_CODE
 - PROV_NAMT
 - TOTAL

Categories:

Drag data source fields here to create category groups.

Series:

Set default tooltips

PROV_NAMT

Values:

Sum(TOTAL)

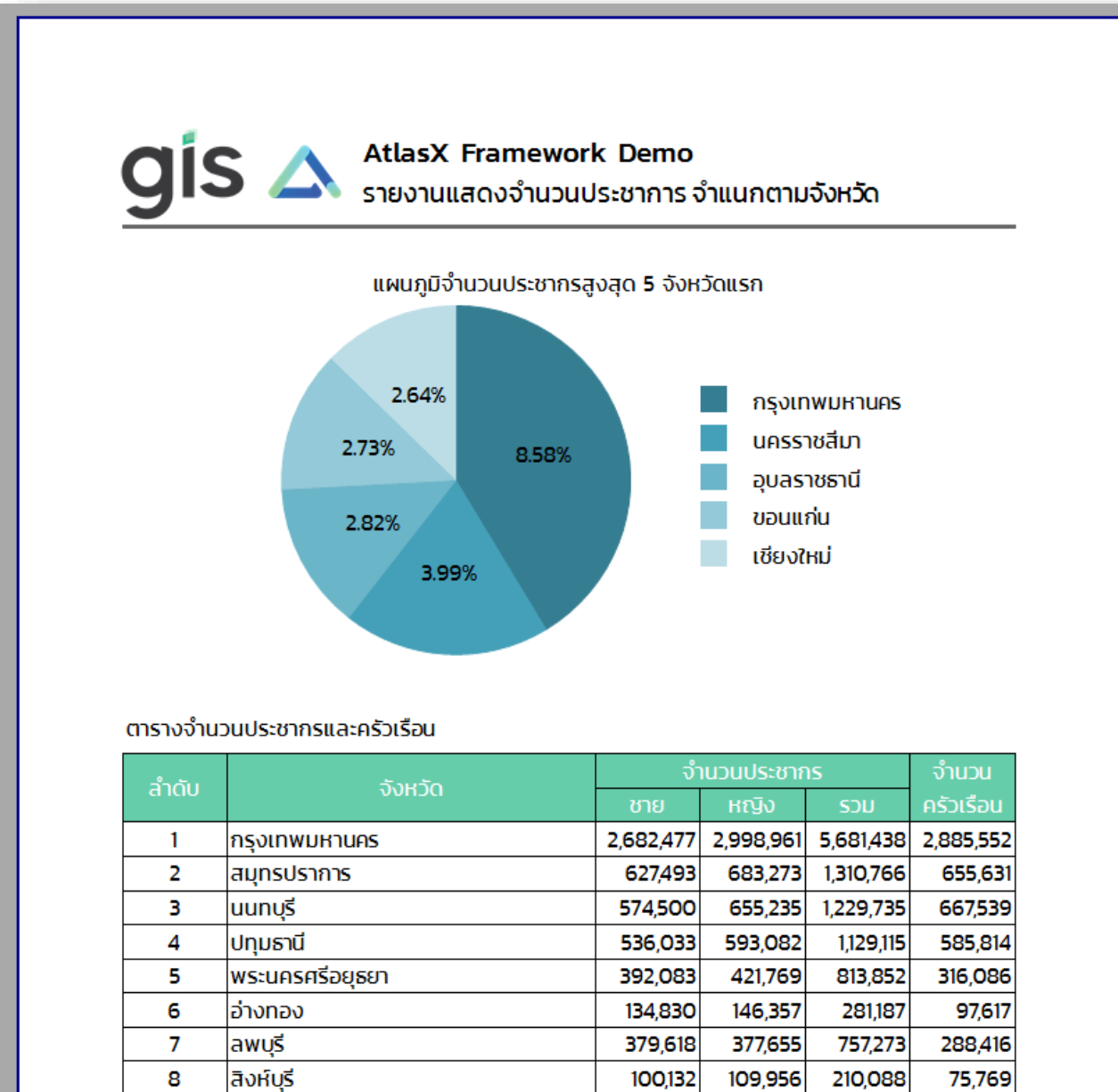
< Back Next > Finish >> Cancel

5. From the Group Explorer, click **Filter** and set the following parameters:
 - Expression: `=Sum(Fields.TOTAL)`
 - Operator: **Top N**
 - Value: `=5`

6. From the Group Explorer, click **Sorting** and set the following parameters:
 - Expression: `=Sum(Fields.TOTAL)`
 - Direction: **DESC**

7. From the Properties grid, select the **Color Palette** option to set specific colors for each bar series.

8. Add the title of the graph.



1. Click [pageFooterSection](#) and add a Textbox which will display the current date and time.
2. Set the [Value](#) property [Expression](#) to the [Date](#) and [Time](#) function `=Now()`.
3. From the bar, select [Insert](#) > [Barcode](#) to add a Barcode item.
4. Set the [Value](#) property [Encoder](#) to the [QRCode](#).
5. Place the <https://atlasx.cdg.co.th> link in the [Value](#) field of the [Barcode](#).
6. Set the top border of the footer.

ตารางจำนวนประชากรและครัวเรือน

ลำดับ	จังหวัด	จำนวนประชากร			จำนวนครัวเรือน
		ชาย	หญิง	รวม	
1	กรุงเทพมหานคร	2,682,477	2,998,961	5,681,438	2,885,552
2	สมุทรปราการ	627,493	683,273	1,310,766	655,631
3	นนทบุรี	574,500	655,235	1,229,735	667,539
4	ปทุมธานี	536,033	593,082	1,129,115	585,814
5	พระนครศรีอยุธยา	392,083	421,769	813,852	316,086
6	อ่างทอง	134,830	146,357	281,187	97,617
7	ลพบุรี	379,618	377,655	757,273	288,416
8	สิงห์บุรี	100,132	109,956	210,088	75,769
9	ชัยนาท	158,773	170,949	329,722	122,391
10	สระบุรี	316,489	325,551	642,040	266,957
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12	ระยอง	349,775	361,461	711,236	457,833
13	จันทบุรี	261,887	272,572	534,459	231,087
14	ตราด	114,140	115,509	229,649	103,887
15	ฉะเชิงเทรา	347,984	361,905	709,889	289,372
16	ปราจีนบุรี	241,281	246,263	487,544	203,243
17	นครนายก	128,236	131,106	259,342	95,955
18	สระแก้ว	281,497	280,441	561,938	205,435



An aerial view of a city skyline, likely San Francisco, with a teal overlay. The image shows a dense cluster of buildings, including several tall skyscrapers. The text "Data Source Components" is overlaid in white, centered horizontally and slightly above the middle vertically.

Data Source Components

Enables you to work with Microsoft SQL Server, MySQL, Oracle, OLE DB, ODBC, Postgres, MS Access databases, and any other database with available ADO.NET provider.

Enables you to work with CSV data - embedded or from a local file.



Enables you to work with data in JSON format - embedded or from a local file.

Enables you to work with business objects or other classes and allows you to create reports that display data from the middle-tier.

Enables you to work with data located on a service in JSON format.

An aerial view of a dense city skyline, likely San Francisco, with a teal overlay. The image shows a variety of skyscrapers and buildings, with the Transamerica Pyramid being a prominent feature on the right side. The text "Adding Interactivity" is centered over the image in a white, sans-serif font.

Adding Interactivity

1. Select the table "จังหวัด" text box located in column header to which we want to add an interactive sorting button.
2. From **Properties** window open the **Actions** editor.
3. Select **Sorting** option.
4. Click **Edit sort targets** button to open Edit Sorting Action targets editor.
5. Click **New** to add a new target.
6. **Select the same Table as target** from the drop down.
7. Click **OK**.

8. In Sort expressions drop-down select the field **Fields.PROV_NAMT**.
9. Click **OK**.

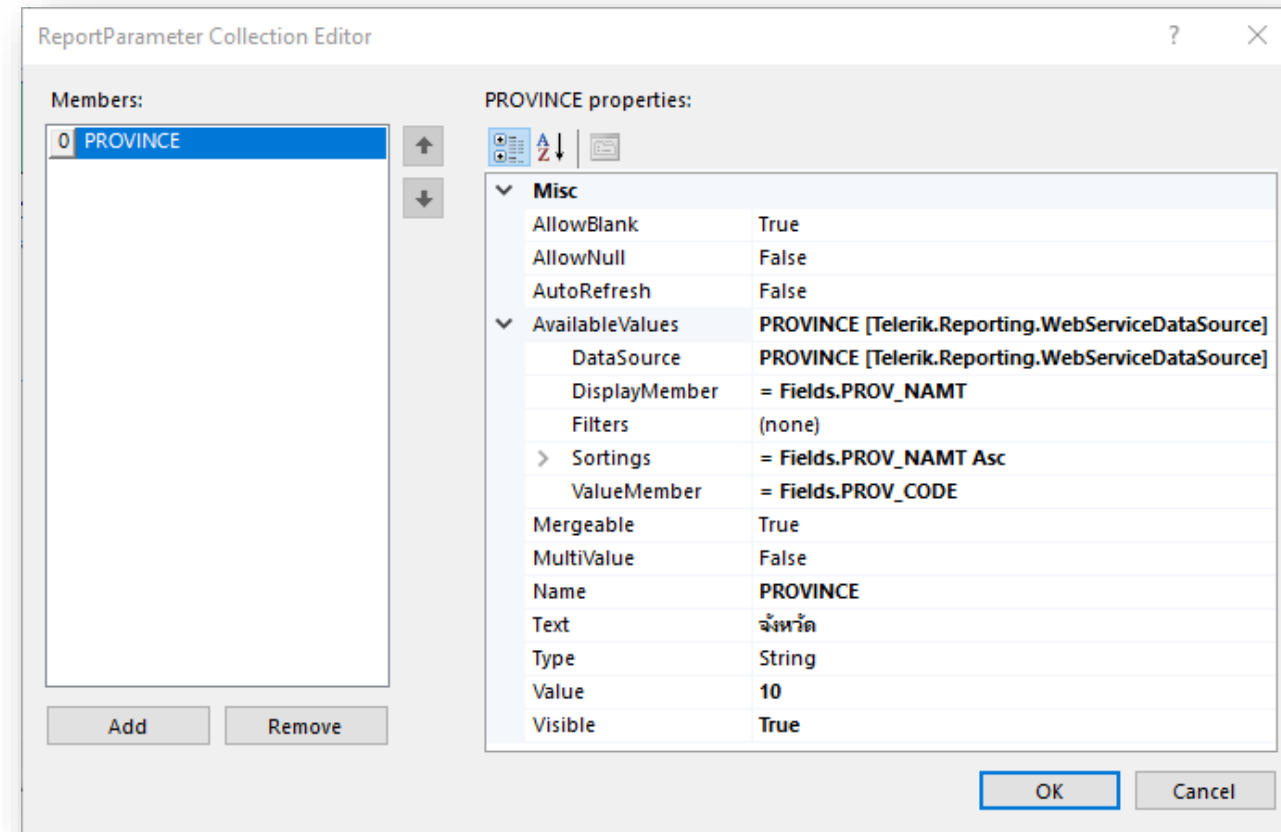
ลำดับ	จังหวัด	จำนวนประชากร			จำนวน ครัวเรือน
		ชาย	หญิง	รวม	
[=RowNu	[= Fields.PROV_NAMT]	[= Fields.	[= Fields.	[= Fields.	[= Fields.

ลำดับ	จังหวัด	จำนวนประชากร			จำนวน ครัวเรือน
		ชาย	หญิง	รวม	
1	กรุงเทพมหานคร	2,682,477	2,998,961	5,681,438	2,885,552
2	สมุทรปราการ	627,493	683,273	1,310,766	655,631
3	นนทบุรี	574,500	655,235	1,229,735	667,539

ลำดับ	จังหวัด	จำนวนประชากร			จำนวน ครัวเรือน
		ชาย	หญิง	รวม	
1	กระบี่	233,442	236,327	469,769	181,426
2	กรุงเทพมหานคร	2,682,477	2,998,961	5,681,438	2,885,552
3	กาญจนบุรี	446,262	441,717	887,979	334,841

Adding Interactivity – Drilldown Report Action

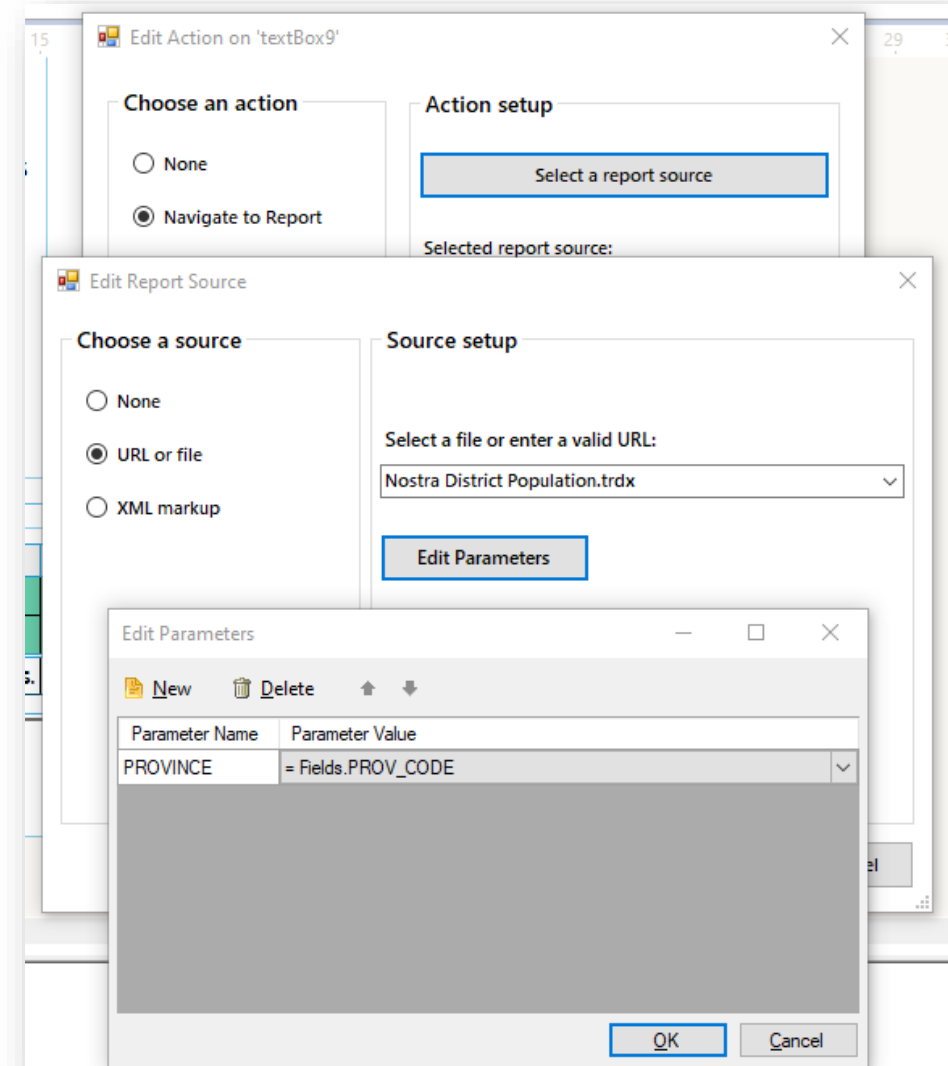
1. Create the **Nostra District Population.trdx** report template (Duplicate the province report).
2. Right-click outside the report. Select **Report Parameters** to add the Report Parameters of the province.
3. Set **PROVINCE** as in the right picture:
4. Add a new **Web Service Data Source** and input the following parameters:
 - **APP_DATA_SOURCE** = **SQLServer**
 - **APP_DATA_PROCEDURE** = **RPT_DISTRICT_Q**
 - **PROV_CODE** = The **PROVINCE** parameter
5. Rename the data source to **DISTRICT**.



Name	Type	Value	Design-Time Value
APP_DATA_SOURCE	Query	SQLServer	SQLServer
APP_DATA_PROCEDURE	Query	RPT_DISTRICT_Q	RPT_DISTRICT_Q
PROV_CODE	Query	= Parameters.PROVINCE.Value	10

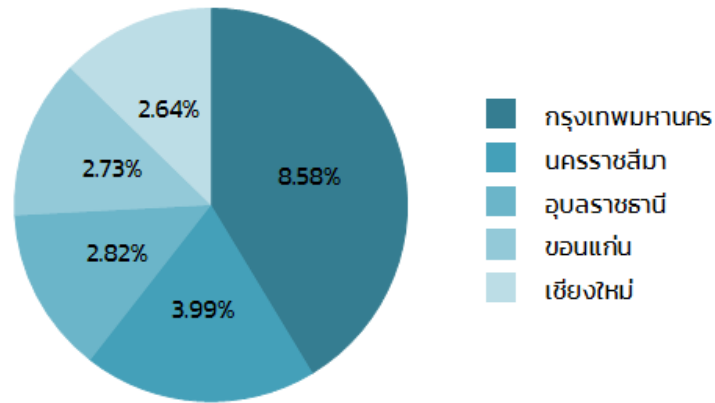
6. Select the table and switch data source from **PROVINCE** to **DISTRICT**.
7. Update the title header and detail expression table.
8. Back to The Province report. Select the table "**=Fields.PROV_NAMT**" text box located in column detail to which we want to add an interactive drilldown button.
9. From **Properties** window open the **Actions** editor.
10. Select **Navigate to Report** option.

11. Setting up the report source as in the following picture:



gis AtlasX Framework Demo
รายงานแสดงจำนวนประชากร จำแนกตามจังหวัด

แผนภูมิจำนวนประชากรสูงสุด 5 จังหวัดแรก



ตารางจำนวนประชากรและครัวเรือน

ลำดับ	จังหวัด	จำนวนประชากร			จำนวนครัวเรือน
		ชาย	หญิง	รวม	
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gis AtlasX Framework Demo
รายงานแสดงจำนวนประชากร กรุงเทพมหานคร

ตารางจำนวนประชากรและครัวเรือน








ลำดับ	อำเภอ	จำนวนประชากร			จำนวนครัวเรือน
		ชาย	หญิง	รวม	
1	พระนคร	24,767	26,464	51,231	19,182
2	ดุสิต	51,252	44,600	95,852	32,311
3	หนองจอก	83,209	87,434	170,643	61,537
4	บางรัก	22,672	25,145	47,817	30,301
5	บางเขน	90,931	99,750	190,681	107,198
6	บางกะปิ	67,312	80,488	147,800	102,119
7	ปทุมวัน	22,469	26,652	49,121	30,815
8	ป้อมปราบศัตรูพ่าย	22,668	23,913	46,581	19,684
9	พระโขนง	41,267	49,267	90,534	52,092
10	มีนบุรี	66,860	74,890	141,750	58,200
11	ลาดกระบัง	83,143	90,844	173,987	90,000
12	ยานนาวา	37,134	41,663	78,797	51,043
13	สัมพันธวงศ์	11,685	12,465	24,150	13,205
14	พญาไท	34,887	35,351	70,238	41,891
15	ธนบุรี	51,585	57,897	109,482	54,576
16	บางกอกใหญ่	32,180	35,588	67,768	30,867
17	ห้วยขวาง	37,022	44,493	81,515	73,691
18	คลองสาน	34,113	39,150	73,263	38,166
19	ตลิ่งชัน	49,417	55,882	105,299	41,732
20	บางกอกน้อย	53,571	58,475	112,046	48,771
21	บางขุนเทียน	86,162	96,073	182,235	87,140
22	ภาษีเจริญ	59,528	67,296	126,824	56,918








- New
- Open
- Save
- Save As ...
- Save All
- Export Template...
- Close
- Close All
- Options
- Help
- Exit

New

Report Templates

-  Blank Report
-  Report Book
-  Band Report Wizard
-  Label Report Wizard
-  Invoice Report Wizard
-  Product Catalog Report Wizard
-  Import Report Wizard

Data Presentation Templates

-  Crosstab Wizard
-  Table Wizard
-  Graph Wizard
-  Map Wizard
-  Choropleth Wizard

Q&A



THANK YOU

For Your Attention

29 June 2020

Prepared by GIS Co., Ltd.