

A person wearing a red jacket and dark pants stands on a snowy mountain ridge, looking out over a vast, snow-covered mountain range. In the background, a prominent, jagged mountain peak rises above the clouds. The scene is captured in a soft, slightly hazy light, suggesting a sunrise or sunset.

Migrating From SSRS to Power BI Paginated Reports

Van Steenlandt Olivier

Data Saturday Gothenburg 2023

Sponsors



The after-party sponsor



Tabular Editor





Hello!

*I am **Olivier Van Steenlandt***

BI Teamlead @ x²O

Core Member @ dataMinds

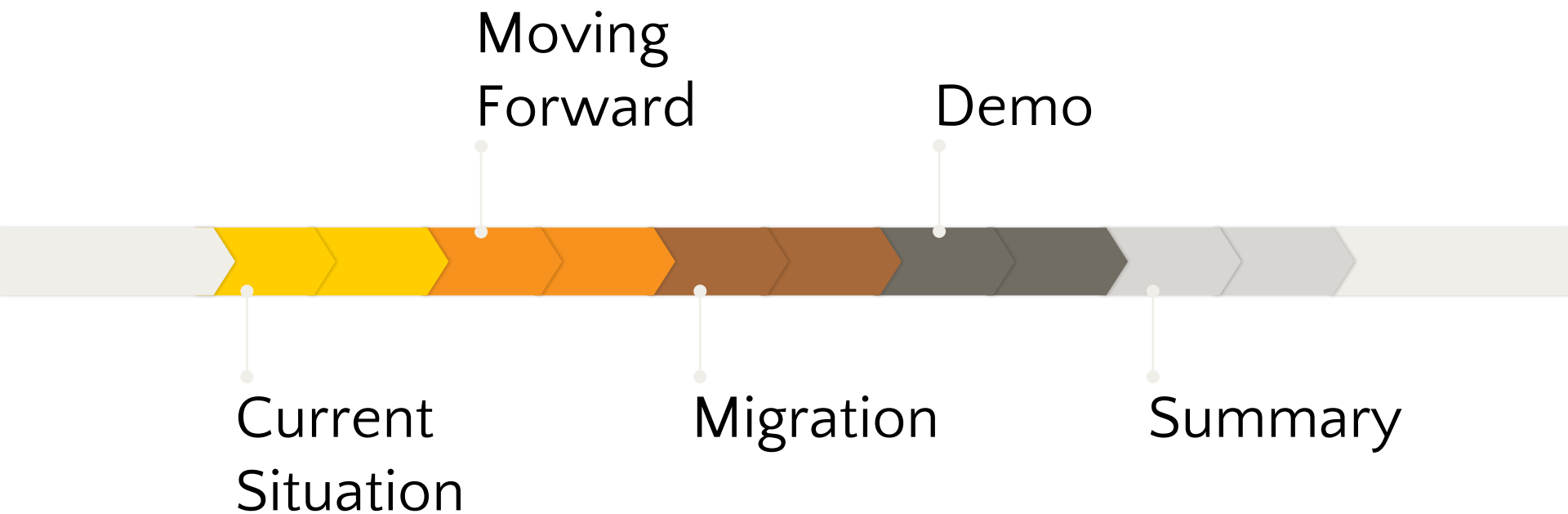
Speaker / Blogger

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Itinerary



Current Situation





Data Team

> SQL SERVER

> SSIS

> SSAS

> SSRS

> Power BI



SSRS

- > Pixel perfect / Printable Reports
- > Security Per Folder / Department
- > Linked Reports
- > Subscriptions
- > Shared Datasets





Power BI

> Workspace

> Analytical Reports



Business Users

 **Example Workspace** 

+ New

Upload







Create deployment pipeline

All

Content

Datasets + dataflows

Datamarts (Preview)

	Name	Type
	Sales	Dataset
	Sales_MeasureTable	Dataset
	Solution - Sales Dataset	Report
	Solution - Sales Dataset	Dataset
	Solution - Sales Report - Thin Report	Report

localhost/reports/browse/

A

☆






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 **SQL Server Reporting Services**    

★ Favorites

📁 Browse


+

↑

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🔍 Search...

 **Home**
[Home](#)

FOLDERS (1)

PAGINATED REPORTS (2)

 Sales By Category

 Sales By SubCategory



Business Challenges

Let's play a game!
Where's the report?

Summary

- > 2 Reporting Platforms
- > Data source Maintenance
- > Security
- > Resource Consumption

Moving Forward



Power BI



Reports



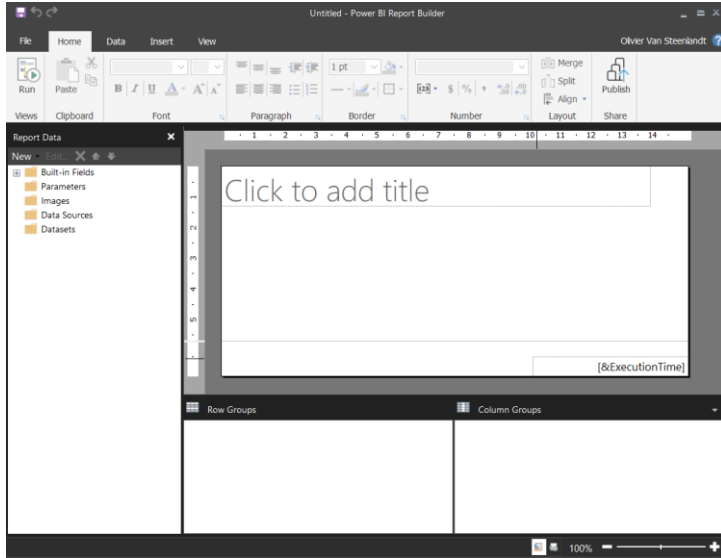
Paginated Reports

● Development Tool



Power BI Report Builder

Power BI Report Builder



- > Created for developers
- > No Solution file
- > No Shared Data sources



Available Data Sources

On-Premise

- > SQL Server
- > SSAS
- > ODBC
- > Oracle
- > Teradata

Cloud

- > Power BI Dataset
- > Azure SQL DB
- > AAS
- > Synapse
- > Dataverse

Expressions




Built-in	Report Builder	Power BI Service
ExecutionTime	Local time	UTC
Report Name	Empty	Report name in Workspace
UserID	NT Account Name	User Principal Name






Power BI Workspace

(Paginated) Reports

> Different Icons

 Name	Type
 Sales By Category	Report
 Sales By SubCategory	Report

 Name	Type
 Sales Report	Report
 Sales Report	Dataset

Power BI App

> Sections

> Audiences

Reports

Olivier Van Steenlandt

14/07/23, 18:55:58

Org app

Reports

Sales By Category

Sales by Sub Category

Sales Report

Product Category

Bikes

Product Subcategory

Road Bikes

Sales Details By Subcategory

Purchase Order Number	Name	Order Qty	Unit Price	Line Total
PO16124166561	Road-350-W Yellow, 40	1	€1,020.59	€1,020.59
PO16124166561	Road-750 Black, 48	2	€323.99	€647.99
PO16124166561	Road-750 Black, 52	3	€323.99	€971.98
PO16501134889	Road-250 Black, 44	6	€1,466.01	€8,796.06
PO16501134889	Road-250 Black, 48	5	€1,466.01	€7,330.05
PO16501134889	Road-250 Black, 52	2	€1,466.01	€2,932.02



Power BI Subscriptions

- > Licensing
- > Timed Subscriptions
- > Data Driven Subscriptions
- > Disable Subscription after Error

Migration



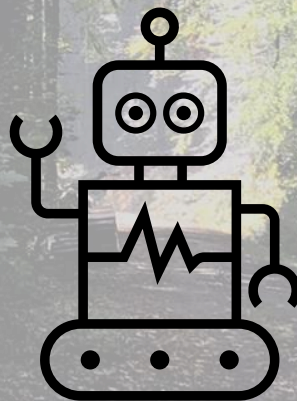


Migration

One-by-one



Automated



One-by-one

1. Locate Rdl-File
2. Open in Power BI Report Builder
3. Change Data Source Connection
4. Execute Report
5. Publish
6. Repeat 1 – 5

One-by-one - Tips

 Data Source Icon Changes

 Deploy Subreports First

● Automated

> SSRS

> Open-Source Tool



Automated Option 1

> Migration using Publish Button in SSRS

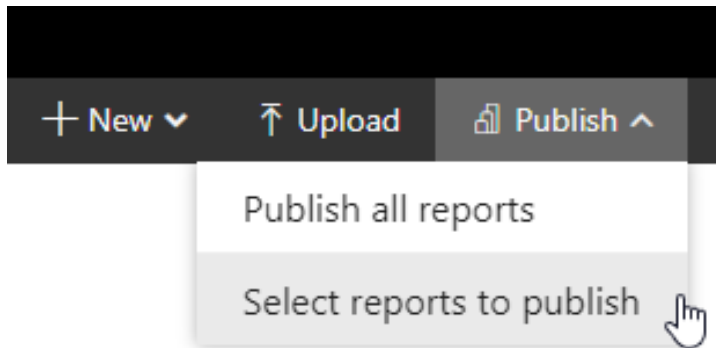
> SSRS Version 15.0.1102.911

→ Not Supported

> SSRS Version 15.0.1102.1047

→ Supported

Automated Option 1



Some reports didn't publish.

Only 3 of 4 were published to Reports.

/Sales/Sales by Category - A report with the same name already exists in the workspace.

[Go to workspace](#)[Check requirements](#)



Automated Option 2

> Rdl Migration Tool (CmdLine)

<https://github.com/microsoft/RdlMigration>

RdlMigration.exe <your Base url endpoint>
<file Path> <WorkspaceName> <client-id>



Automated Option 2

- > App Registration in Azure Portal
- ✓ Read all workspaces
- ✓ Read and write all datasets
- ✓ Read and write all reports

<https://app.powerbi.com/embedsetup>







Automated Option 2

> ConversionLog

```
Starting the log-in window
Log-in successfully, retrieving the reports...
Starting conversion and uploading the reports 29/07/2023 10:44:23
Starting the log-in window
Log-in successfully, retrieving the reports...
Starting conversion and uploading the reports 29/07/2023 10:45:26
SUCCESS : Sales By Category The file is successfully uploaded
SUCCESS : Sales By SubCategory The file is successfully uploaded
```

> Output Folder

-  Sales By Category_convert.rdl
-  Sales By Category_original.rdl
-  Sales By SubCategory_convert.rdl
-  Sales By SubCategory_original.rdl



What about **Subscriptions**
*after migrating from SSRS to
Power BI Paginated Reports?*

“

Demo



*We climbed the mountain
and reached the top
together,
Well done!*

“

Limitations

- > No Linked Reports
- > Disable Subscriptions
- > Subscriptions Not Migrated



Benefits

- > 1 Reporting Environment
- > Drill through from Power BI Reports
- > Power BI Deployment Pipelines



Thank you!
Questions?

I am Olivier Van Steenlandt

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Session
evaluation

