

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**



# Hello!

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# Itinerary

Moving  
Forward

Demo

Current  
Situation

Migration

Summary



# Current Situation





# Data Team

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> SQL SERVER

> SSIS

> SSAS

> SSRS

> Power BI



# SSRS

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



# Power BI



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- > 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/       


 **SQL Server Reporting Services**    


★ Favorites   □ Browse   +   ↑   📄   □   🗃   Search... 🔍

 **Home**  
[Home](#)

FOLDERS (1)

PAGINATED REPORTS (2)

 Sales By Category ...

 Sales By SubCategory ...





# Business Challenges

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



# Summary

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

# Moving Forward



# Power BI

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Reports



Paginated Reports

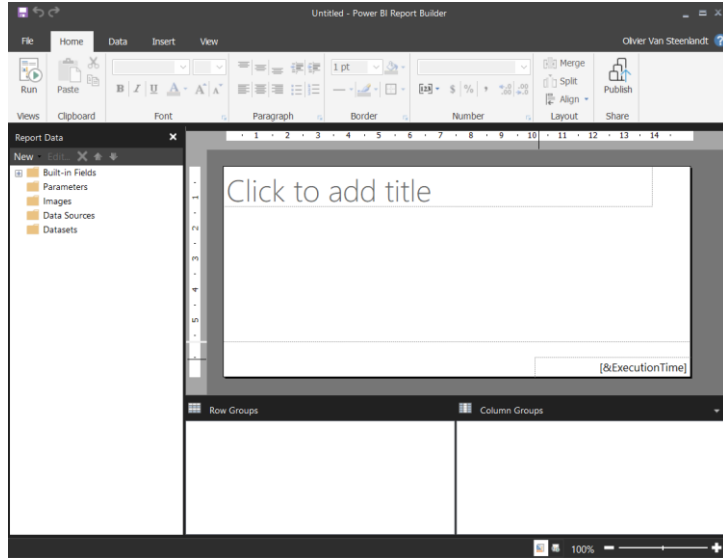
# ● Development Tool

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Power BI Report Builder

# Power BI Report Builder



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



# Available Data Sources

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## 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
	RPT0001 - Sales by Category	Report
	RPT0002 - Sales by Sub Category	Report

	Name	Type
	Sales Report	Report
	Sales Report	Semantic model

# Power BI App

> Sections

> Audiences

Reports

Olivier Van Steenlandt

14/07/23, 18:55:58

Org app

Reports

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



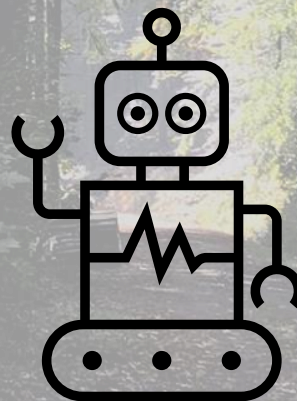


# Migration

One-by-one



Automated





## One-by-one

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

## **One-by-one - Tips**

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> Data Source Icon changes

> Deploy Subreports first

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# Automated

> SSRS

> Open-Source Tool

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# Automated Option 1

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> Migration using Publish Button in SSRS

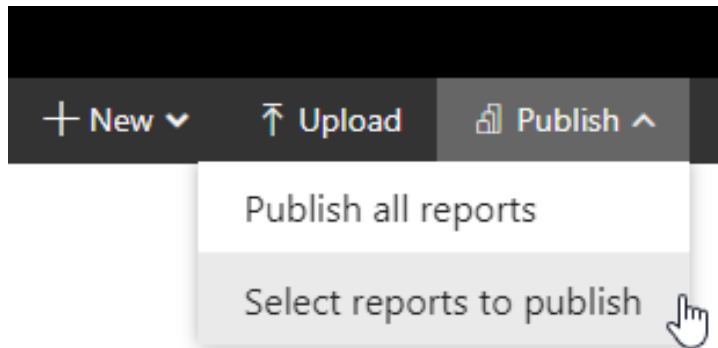
> SSRS Version 15.0.1102.911

→ 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

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> Rdl Migration Tool (CmdLine)

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

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



# Automated Option 2

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- > 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

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



# Benefits

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



# Thank you! Questions?

***I am Olivier Van Steenlandt***

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