

SSRS to Power BI Converter



Power BI

preludeSYS
IMPLICIT KNOWLEDGE



Agenda

- ④ Purpose and Advantages of “SSRS to Power BI Converter”
- ④ Feature comparison - SSRS Vs Power BI
- ④ Types of reports supported for Migrations
- ④ Pre-requisites
- ④ Demo

SSRS to Power BI Converter

Objective:

Simplify and minimize the manual touch points in migration through SSRS to Power BI converter (reference to RDL Migration tool).

Existing Approach:

- The tool simplifies and minimizes the manual touch points in migration of reports from SSRS to Power BI. Extended feasibility of bulk reports migration with easy process and enriched user interface. Handful detailed info on the conversion of reports and logs, which helps Business Intelligence(BI) teams to take the right action.
- Overall, it stimulates migration of reports feasibility and conversion exercise.

Proposed Solution and Its Advantages:

- ✔ Migrator tool has been built to reduce the manual effort to migrate SSRS reports to Power BI.
- ✔ The tool comes with a User-friendly interface.
- ✔ We could migrate 1000s of SSRS reports to Power BI in one click.
- ✔ Detailed migration results available in Excel format.
- ✔ The migrated reports are created as Paginated Reports which could be readily converted to pdf.
- ✔ User could navigate directly to the Power BI workspace (migrated reports target folder).
- ✔ User need not download any source code (RDL Migration tool – Open source) and Power BI installer.

Feature Comparison SSRS Vs Power BI

Basis For Comparison	Power BI	SSRS
Definition	Power bi stands for power business intelligence which is the product of Microsoft. Used for analysis and generating the reports from the cloud as well as server	SSRS stands for SQL server reporting services, it is also a product of Microsoft. Used for analysis of data and generating reports on server-based data.
History	Power bi report server is first introduced in 2017.	SSRS was first introduced in 2004.
The Implementation	It is used to generate cloud-based reports as well as server-based reports	Only used for generating the server-based reports.
Benefits	Easy to use due to enriched graphical component	Drill down capability is more.
Accessibility	Can be used through the web, mobile App, and desktop	Only access to web and desktop
License	It is free for use.	It is paid tool.
Component	It is HTML 5 open-source app-enabled and cloud-enabled SAAS.	SSRS is enterprise visualization tool based on old technology.
Learning Curve	Power bi is a graphical tool so through drag and drops you can complete your but its internal processed is hiding so that you can't understand how it process internally.	In SSRS developer has to do all the coding and designing of the report so the developer has the better picture of the process.
Usage	It is easier to use because of rich graphical component	Less user-friendly
Data Dependency	Can deal with structure and unstructured of the data	Can work with structure and semi-structure of data.
Occurrence	In IT market power bi is emerging and replacing SSRS	Till now SSRS has a lot of presence but now power bi has more presence.

How to configure SSRS reports for the migration.

- ✔ **In General** – For all the reports migrated we need to configure the Data Source if not exists using Gateway for Power BI to access and display reports properly.
- ✔ **Simple Report** – This type of reports will have their own DataSource and DataSet, This report will be migrated easily just we need to provide Data Source information to Gateway under Power BI settings, for the report to work properly.
- ✔ **Shared Data Source Reports** – This type of reports will have shared Data Source, for this report also we need to configure Data source in Gateway for Power BI to access and display the report properly.
- ✔ **Shared DataSets Report** – This type of reports will have shared DataSet, for this report also we need to configure Data source in Gateway for Power BI to access and display the report properly.
- ✔ **Reports with Images** – All images in the report should be Embedded or should be stored in Database before migrating to Power BI. If we are going to use external image, we need to deploy the image to server and provide the path.

Types of SSRS reports migrated to Power BI.



Drilldown Reports –

This type of reports will have grouped or nested data, here also we only need to configure correct Data Source in Power BI Gateway



Drilldown Sub Reports –

This is a sub report show inside the main report, here we need to migrate both Main and Sub reports separately and configure the Data Source in Power BI Gateway.



Drill through Sub Report –

In this report we will navigate to sub report using a link from main report. The report type is unsupported for migration to Power BI.



Demo

SSRS to Power BI – Report Converter

SSRS - PowerBI - Report Converter

preludesys | SSRS To Power BI - Report Converter Minimize
Trial Version

About Us:

PreludeSys is a global technology solutions provider since 1998. Our services include Enterprise Integration, Digital Transformation – App Modernization _Cloud Migration, Artificial Intelligence _Business Intelligence, Business Application Services (CRM /ERP), Data Management _Governance, Advanced Analytics _Power BI Reporting, Testing _Business Process Services.

About Accelerator: SSRS - PowerBI – Report Converter:

The tool simplifies and minimizes the manual touch points in migration of reports from SSRS to Power BI. Extended feasibility of bulk reports migration with easy process and enriched user interface. Handful detailed info on the conversion of reports and logs, which helps Business Intelligence(BI) teams to take the right action.

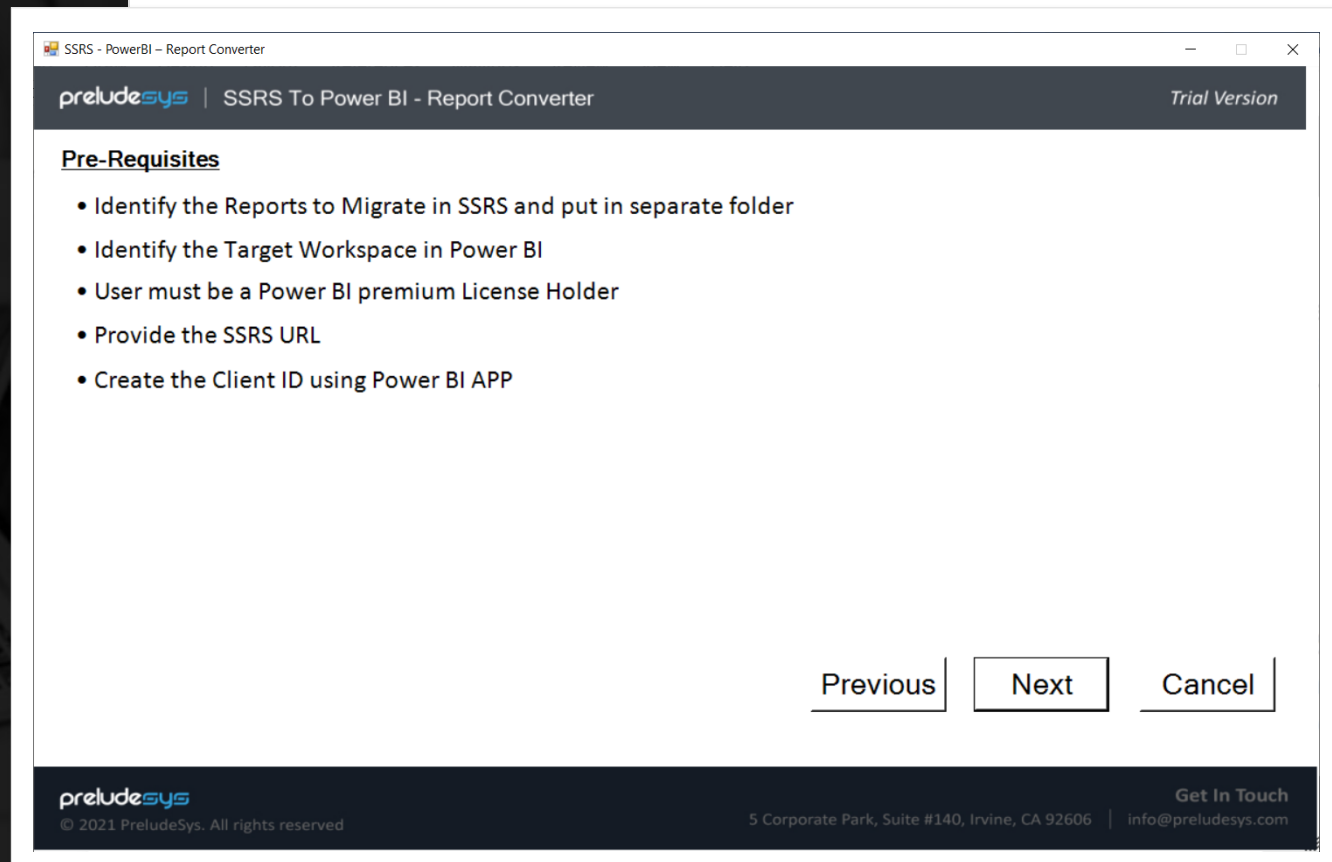
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Pre-Requisites

The pre-requisites are mentioned in the Tool (refer screen print). One of the important pre-requisite being that the User must be a Power BI premium license holder.



The screenshot shows a window titled "SSRS - PowerBI - Report Converter" with a dark header bar. The header bar contains the "preludesys" logo, the text "SSRS To Power BI - Report Converter", and "Trial Version" on the right. The main content area is titled "Pre-Requisites" and lists five bullet points. At the bottom right of the content area are three buttons: "Previous", "Next", and "Cancel". The footer of the window contains the "preludesys" logo, copyright information "© 2021 PreludeSys. All rights reserved", and contact information "5 Corporate Park, Suite #140, Irvine, CA 92606 | info@preludesys.com" and "Get In Touch".

SSRS - PowerBI - Report Converter

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Pre-Requisites

- Identify the Reports to Migrate in SSRS and put in separate folder
- Identify the Target Workspace in Power BI
- User must be a Power BI premium License Holder
- Provide the SSRS URL
- Create the Client ID using Power BI APP

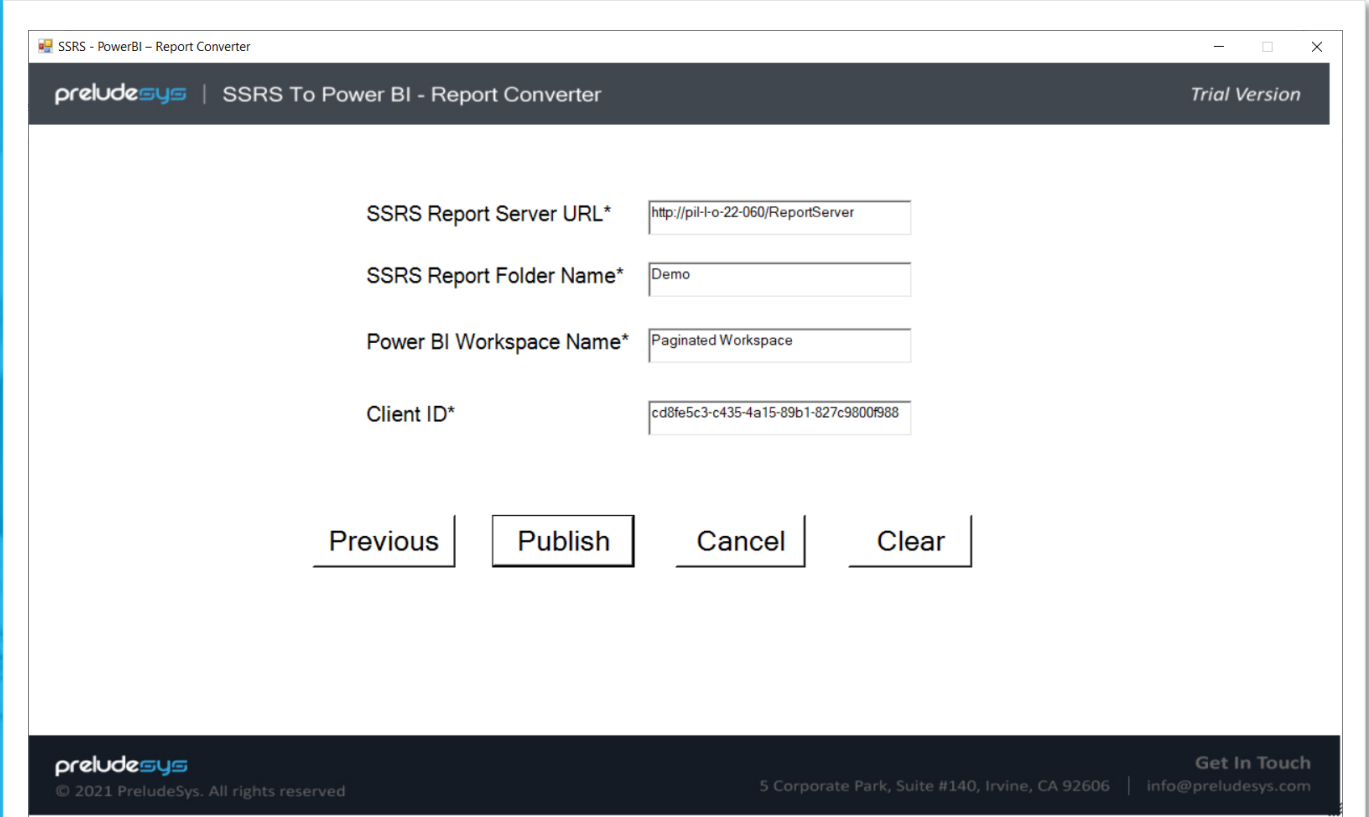
[Previous](#) [Next](#) [Cancel](#)

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Demo

- The Migrator Tool requires the user to key in 4 fields – SSRS Report Server URL, SSRS Report Folder Name, Power BI Workspace Name and Client ID.
- On prompt, Provide the required MS Power BI Premium Account user credentials



Demo (Contd.)

On choosing the user account, takes you to the final page which is the Results page. We get the details of the reports which are migrated and their Status.

SSRS - PowerBI - Report Converter

preludesys | SSRS To Power BI - Report Converter Trial Version

- Success status - The file is successfully uploaded
- Conflict status - A report with the same name already exists in the workspace
- Failed status - Will display the Proper reason for Failure

Progress Log:

Starting the log-in window
Starting conversion and uploading the reports 6/13/2022 3:42:16 PM
Found 4 reports to convert
CONFLICT : Company Sales A report with the same name already exists in the workspace
FAILED TO UPLOAD : Sales Trend RequestId:11e3b867-7b75-4e03-b9ec-2946e1e9e4ef Dataset is invalid
CONFLICT : Store Contacts A report with the same name already exists in the workspace
In Trial Version, only 3 Reports can be converted. To Convert More Reports. Please contact admin@preludesys.com.
Click the below URL to see the converted Reports on Power BI

<https://app.powerbi.com/groups/7e31279f-f73a-4dde-b12d-745a70c28fa5/list>

Conversion Summary:

ReportName	Status	Remarks	Date
Company Sales	CONFLICT	A report with the same name already exists in the workspace	6/13/2022 9:12 PM
Sales Trend	FAILED	Dataset is invalid	6/13/2022 9:12 PM
Store Contacts	CONFLICT	A report with the same name already exists in the workspace	6/13/2022 9:12 PM

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SSRS To Power
BI_2022_05_19_21_50_05.xls



Demo (Contd.)

Excel file details are shown beside

The screenshot shows the Microsoft Excel interface with the following data in the worksheet:

ReportName	Status	Remarks	Date
Company Sales	SUCCESS	The file is successfully uploaded	5/19/2022 21:49
Sales Trend	FAILED	Dataset is invalid	5/19/2022 21:49
Store Contacts	CONFLICT	A report with the same name already exists in the workspace	5/19/2022 21:49

Comparing "Company Sales" report before and after migration

SQL Server Reporting Services

Company Sales

Start Date: 1/1/2011, End Date: 12/31/2011

Adventure Works Sales
January 01, 2011

	2011			
	Q1	Q2	Q3	Q4
Accessories	\$1,000	\$8,751	\$10,348	
Bikes	\$806,020	\$4,741,276	\$6,282,095	
Clothing	\$2,875	\$19,806	\$17,441	
Components	\$21,528	\$278,840	\$338,807	

Power BI Paginated Workspace

Company Sales

Start Date: 1/1/2011, End Date: 12/31/2011

Adventure Works Sales (January 01, 2011 - December 31, 2011)

	2011
Accessories	\$20,825
Bikes	\$11,949,992
Clothing	\$36,122
Components	\$639,173

Comparing "Store contacts" report before and after migration

SQL Server Reporting Services

Home > Demo > Store Contacts

Store? Advanced Bike Components

Advanced Bike Components
For information, call:

Donna Carreras	Purchasing Agent	279-555-0130
Joanna Wall	Purchasing Manager	127-555-0100

Power BI Paginated Workspace

Store Contacts

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[Advanced Bike Components](#) Store Contacts
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Thank You