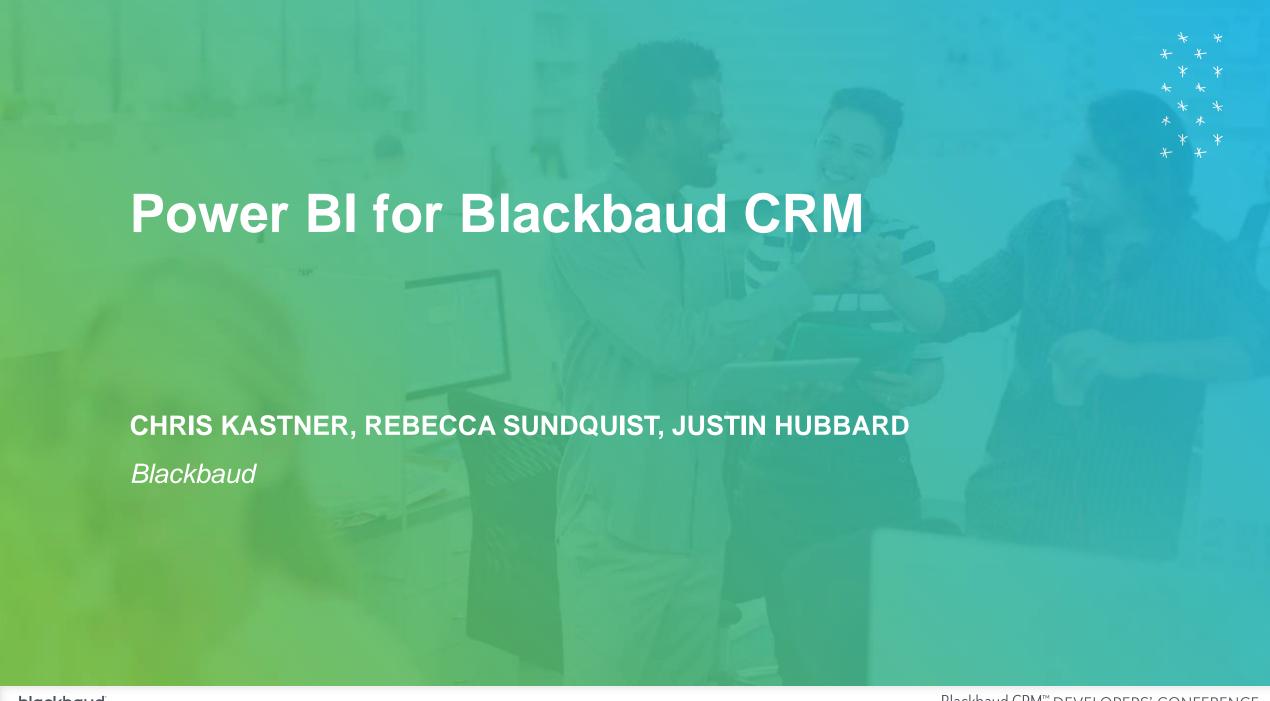
Blackbaud CRM™ DEVELOPERS' CONFERENCE





Chris Kastner

linkedin.com/in/ckastner

TITLE Sr Consultant

AT BLACKBAUD
Seven years

HOMETOWNMelbourne, Australia



Rebecca Sundquist

linkedin.com/in/rebecca-sundquist

TITLE

Business Systems Analyst, Sr Principal

AT BLACKBAUD

Fifteen years

HOMETOWN

Kansas City, MO



Justin Hubbard

linkedin.com/in/a-justin-hubbard

TITLE

Architect, Sr Principal

AT BLACKBAUD

Nine years

HOMETOWN

Charleston, SC



WHY POWER BI?

Why Power BI?

Monitor, Analyze,
Drill Through

Reference multiple source systems for an enterprise view

Ad hoc/Explorative
Analysis

Automated Insights

Demonstration

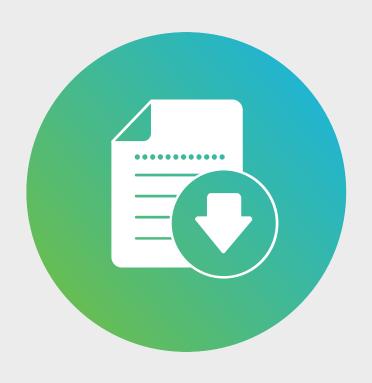




CONNECTION OPTIONS

Ad Hoc Query via OData

Data List via SOAP



Ad Hoc Query

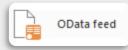
Use OData link to copy query results into Power BI.

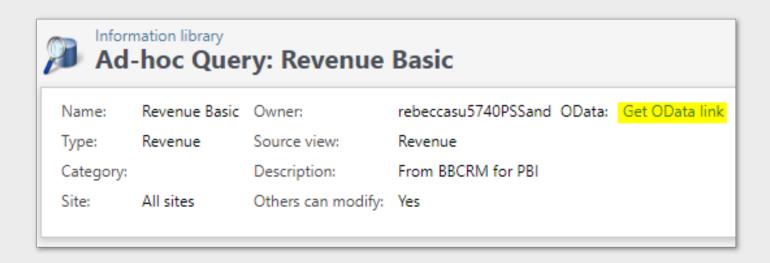
OData

Build Ad-hoc Query

Get OData Link

Paste OData Link into PBI's OData Source

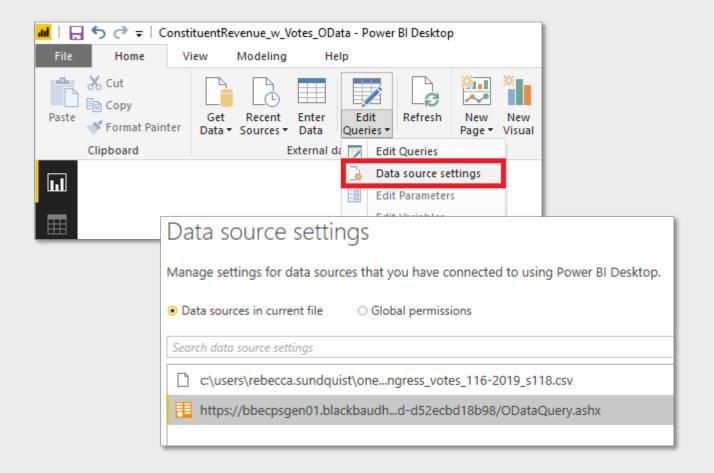




Challenge: Swap one OData reference for another

Under Edit Queries, select Data Source Settings.

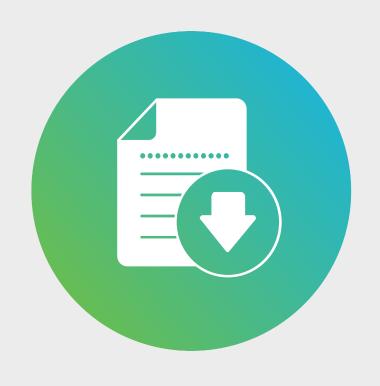
From here you can edit any of the data sources. However, you must stay within the source system (i.e. exchange one OData URL for another)



Challenge: Filter the data flowing into Power BI

- Add filter to ad hoc Query Do this if you don't need multiple filter scenarios on the same data source.
- 2. OR use a Data List and pass a filter over the URL Do this if you need to leave your ad hoc query alone, but you don't want to pull all the query's records into Power BI.





Data List API

Use the "Data Set" URL from the Data List API options.

Allows Power BI developer to filter data list as it flows into Power BI Query.

Data List encodes data types, whereas OData requires PBI user to set up the data types in PBI

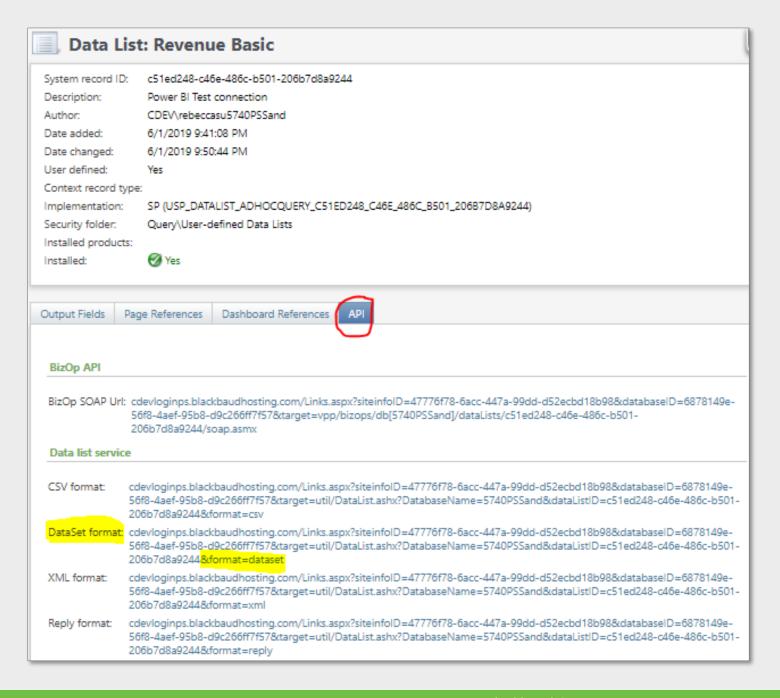
DataSet Format

Create Data List from Adhoc Query

Copy DataSet Format URL for use in Power BI

Paste URL into PBI's Web data source



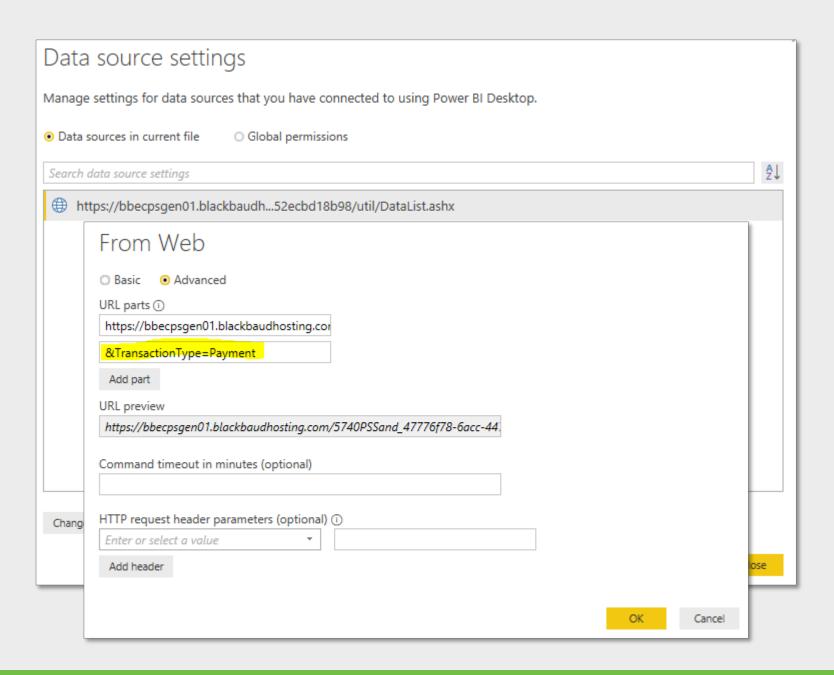


Filter Data List



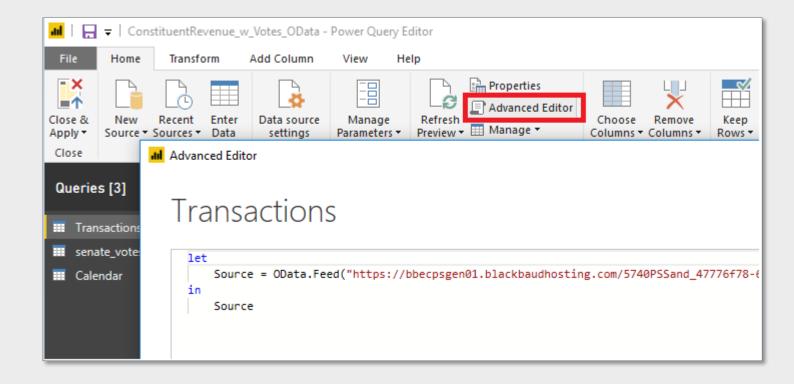
PBI Web data source allows users to set up Advanced XML options in order to pass URL parts to the BBCRM Data List

&FieldName=FieldValue



Challenge: Switch from one type of data source to another

In Power Query Editor, use the Advanced Editor to swap the data source syntax





PUBLISH TO POWER BI SERVICE

Power BI Tenant



Publish the report to Power BI Service

Microsoft licenses are required to view Power BI Content:

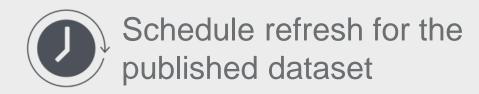
Content consumers have Power BI Pro licenses

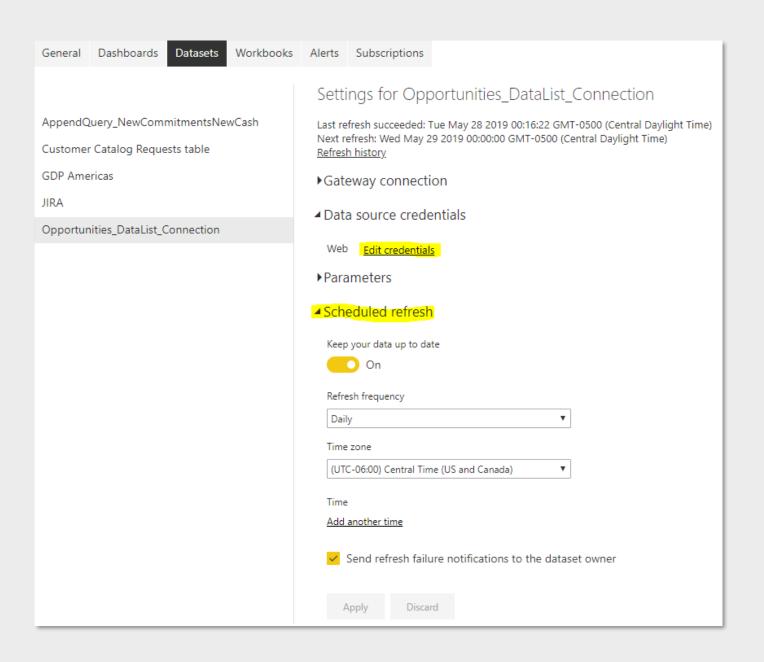
OR report is assigned capacity through Power BI Premium license, allowing access to large scale user bases

Refresh Settings



BBCRM Credentials



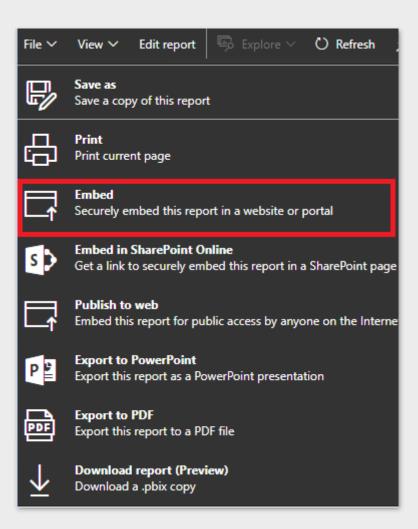




EMBEDDING POWER BI

Embed

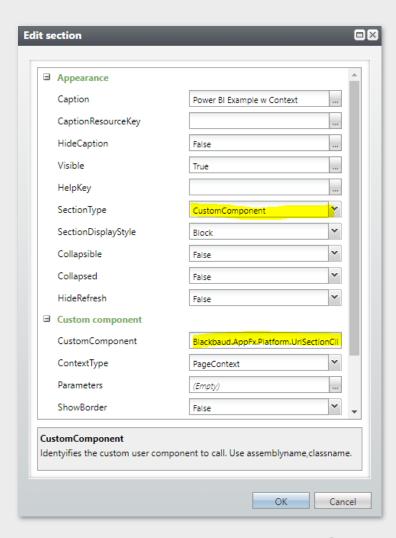
In Power BI Service, grab the Embed code from the report's File Menu



Create Section

Create a Section to contain a "Custom Component"





Blackbaud.AppFx.Platform.UrlSectionClient.dll,Blackbaud.AppFx.Platform.UrlSectionClient.UrlSection

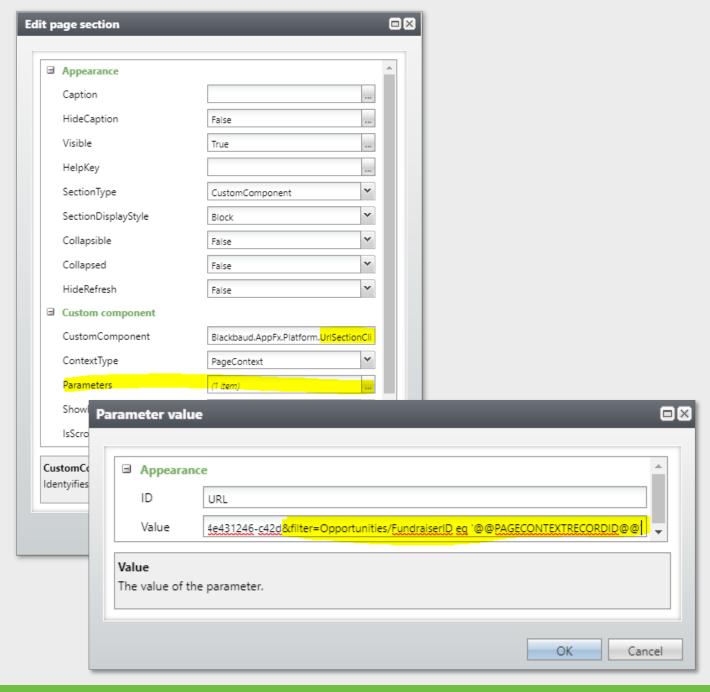
Challenge: Pass context from the BBCRM page to the Power BI report

Use the Parameters within the CustomComponent to reference the PBI embed code

Append filters to the embed code to pass context

&filter=**TableName/FieldName** eq '@@PAGECONTEXTRECORDID@@'

TableName/FieldName is the Power BI Query table and field



LEARN MORE



To learn more about what was included in this agenda, visit:

Configure the Application Root URL for OData

BBCRM Get OData Link

BBCRM Data List SOAP Web Service

Microsoft Learn: Power Bl

Microsoft Power BI Pricing

LET'S CONNECT



- in linkedin.com/in/ckastner
- in linkedin.com/in/rebecca-sundquist
- in linkedin.com/in/a-justin-hubbard

THANK YOU!

Blackbaud CRM™
DEVELOPERS' CONFERENCE