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SQL Day 2017

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Data Scientist as a Service

UBS

VOLVO Volvo Group IT

STRATEGIC PARTNER

Microsoft

SQL Server Reporting Services
What's new

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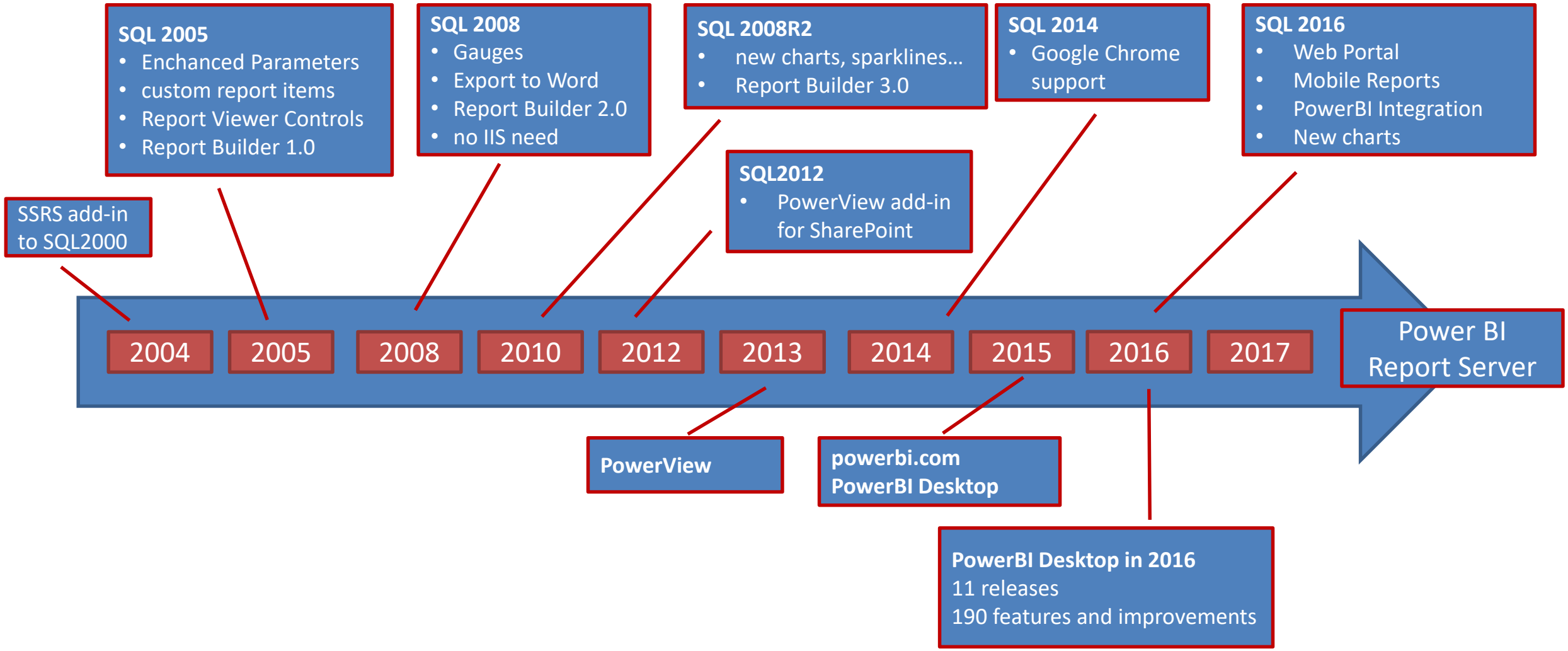
Tomasz Libera

- DB Developer - WSZiB Krakow
- Microsoft MVP Data Platform
- Polish SQL Server User Group Association
  - Member of The Board
  - Krakow Local Group Leader
  - SQLDay, SQLSaturday Conference organizer and speaker
- Certificates
  - MCT | MCSE Data Platform | MCITP-DBA, MCITP-DD
- MTB marathon enthusiast, member of XBOX Bike Team

Agenda

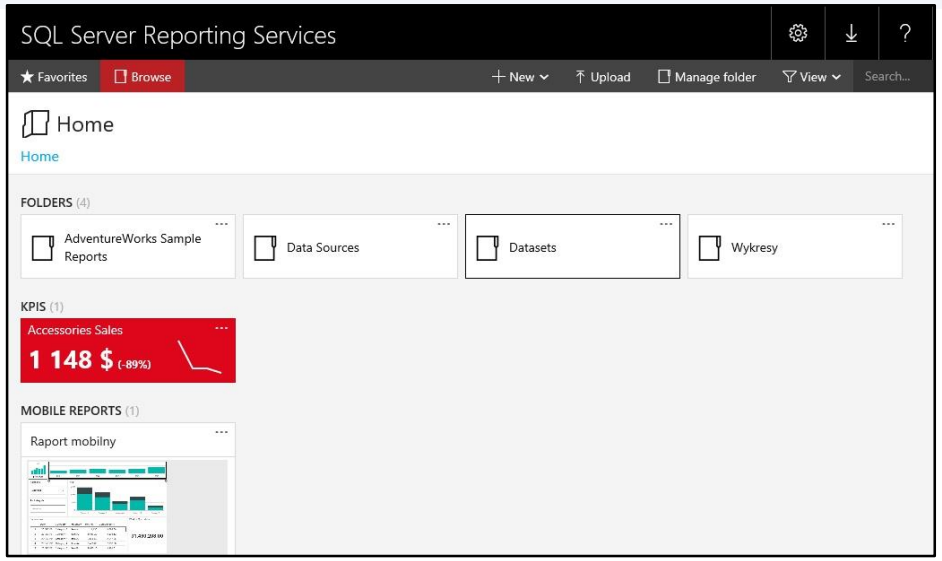
- Introduction, History
- SSRS 2016
  - Web Portal
  - Service Pack 1
- Power BI on premise
  - Power BI Report Server
  - Demo jak przenieść z bpix do SSAS tabular

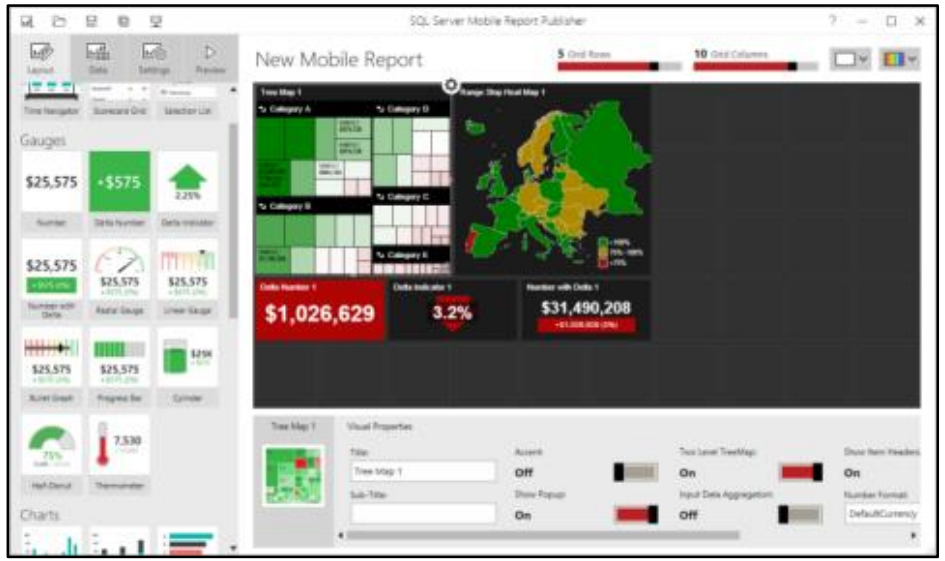
History


SSRS add-in to SQL2000
SQL 2005
• Enchanced Parameters
• custom report items
• Report Viewer Controls
• Report Builder 1.0
SQL 2008
• Gauges
• Export to Word
• Report Builder 2.0
• no IIS need
SQL 2008R2
• new charts, sparklines…
• Report Builder 3.0
SQL2012
• PowerView add-in for SharePoint
SQL 2014
• Google Chrome support
SQL 2016
• Web Portal
• Mobile Reports
• PowerBI Integration
• New charts
2004
2005
2008
2010
2012
2013
2014
2015
2016
2017
Power BI Report Server
PowerView
powerbi.com
PowerBI Desktop
PowerBI Desktop in 2016
11 releases
190 features and improvements

SQL Server 2016

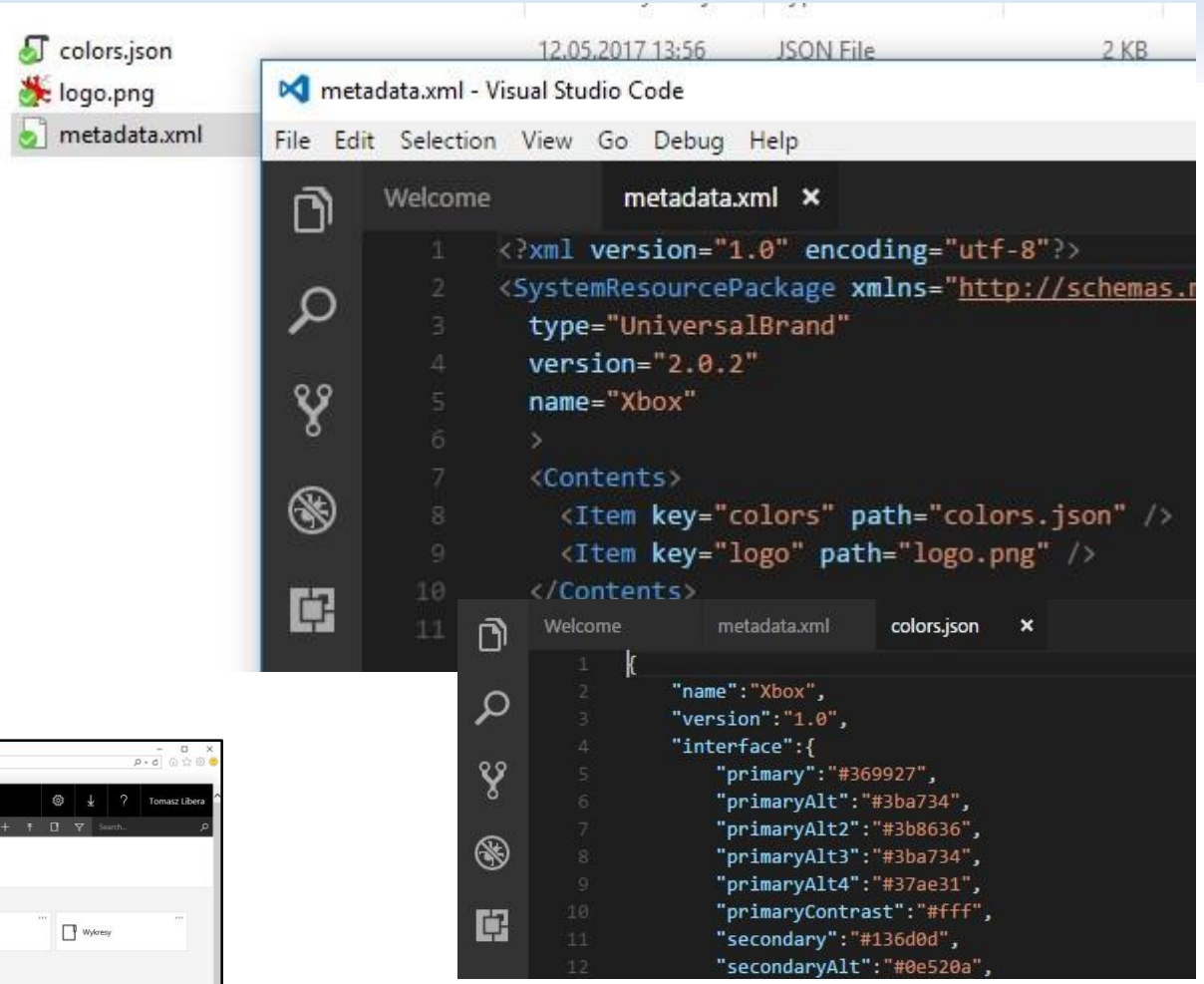
- Reporting Services Web Portal – HTML5
  - Custom branding for the web portal
  - Key performance indicators (KPI)
- Mobile Reports
  - Mobile Report Publisher
  - Mobile reports in PowerBI Mobile app
- Pin Report Items to Power BI Dashboard
- PowerPoint Rendering
- Tree Map and Sunburst Charts

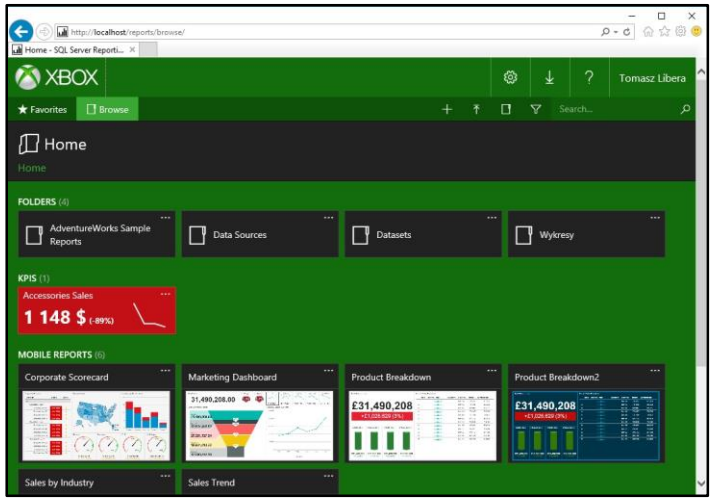


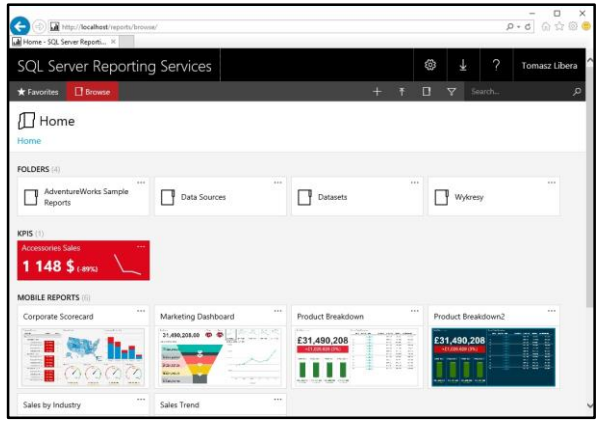


Branding Web Portal

- A brand package consists:
  - metadata.xml
  - logo.png (optional)
  - color.json (interface, theme)



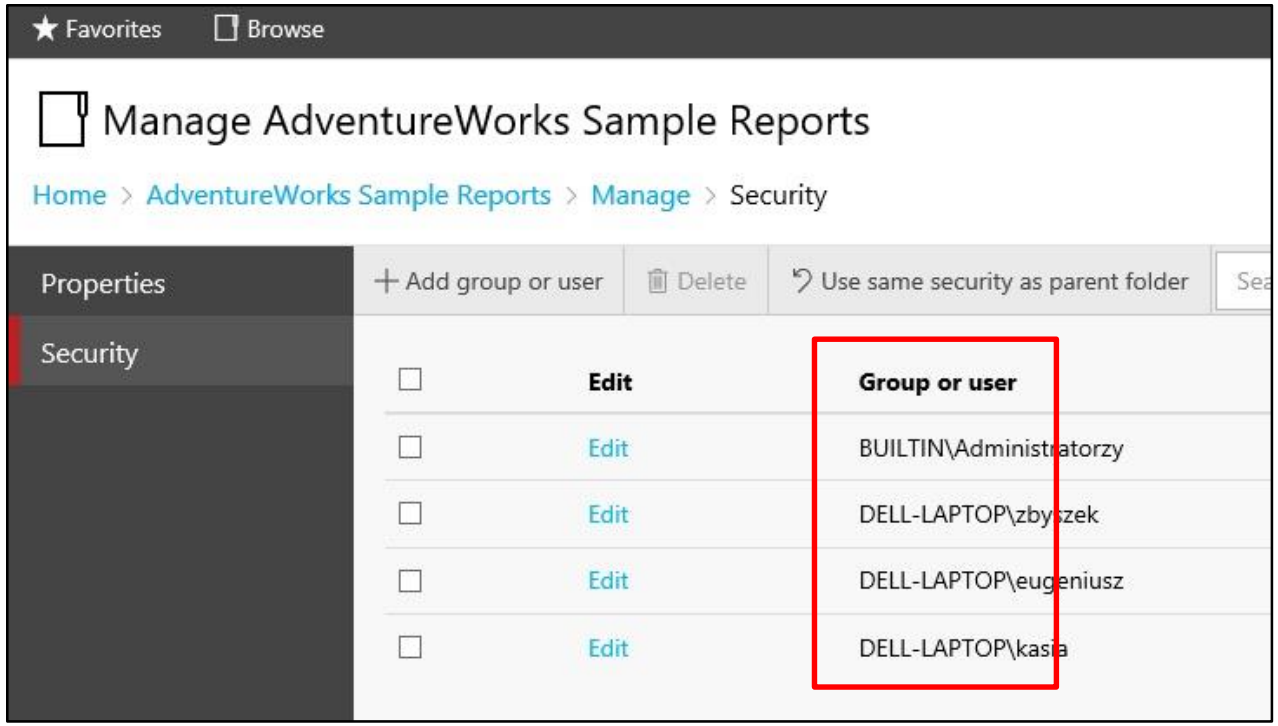




https://blogs.msdn.microsoft.com/sqlrsteamblog/2016/03/20/how-to-create-a-custom-brand-package-for-reporting-services-with-sql-server-2016

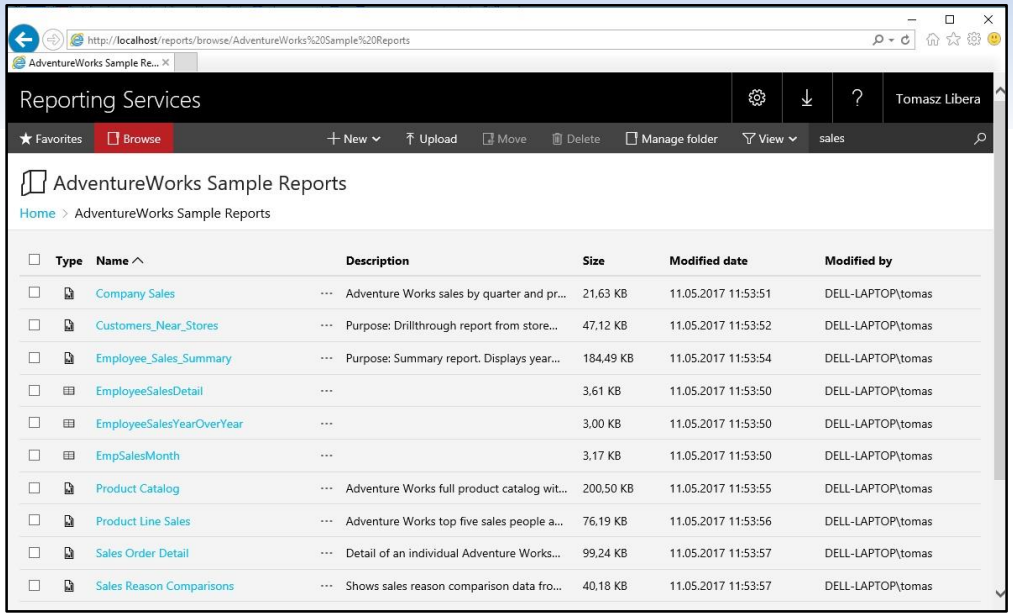
Web Portal RTM - gaps

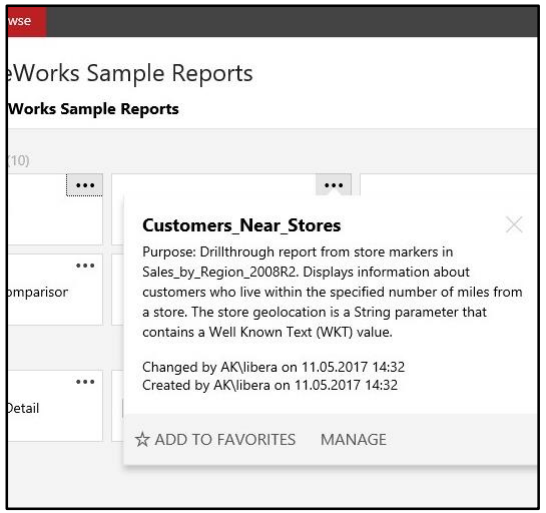
- No sort in Security Property and search results
- No report rename during upload
- No Security option in context menu
- No multiple items operations

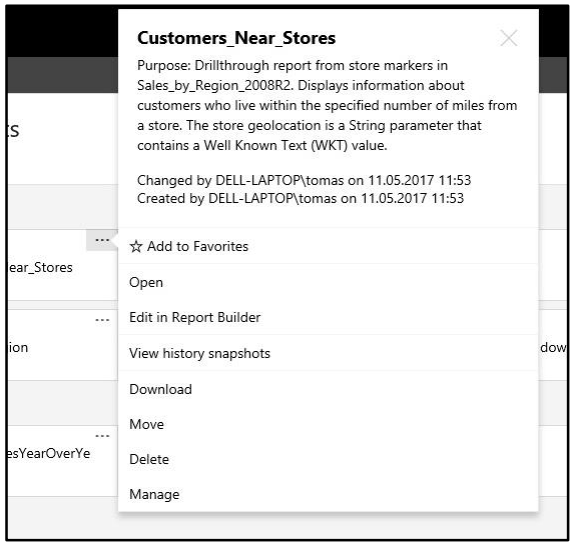


SQL Server 2016 SP1

- List View (Details View successor)
  - Horizontal items list
  - Sort order
  - Move or delete many items
- Enhanced Context Menus
- Execution Log for Mobile Reports (ExecutionLog)
- Direct Navigation Option for KPI’s







Demo1

- Web Portal
- Mobile Reports
- Branding
- SP1 improvements

MS reporting roadmap (October 29, 2015)

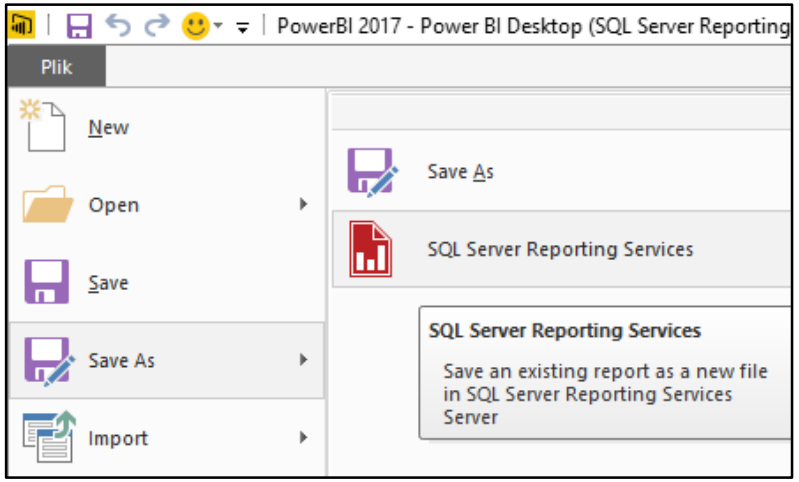
https://blogs.technet.microsoft.com/dataplatforminsider/2015/10/29/microsoft-business-intelligence-our-reporting-roadmap/

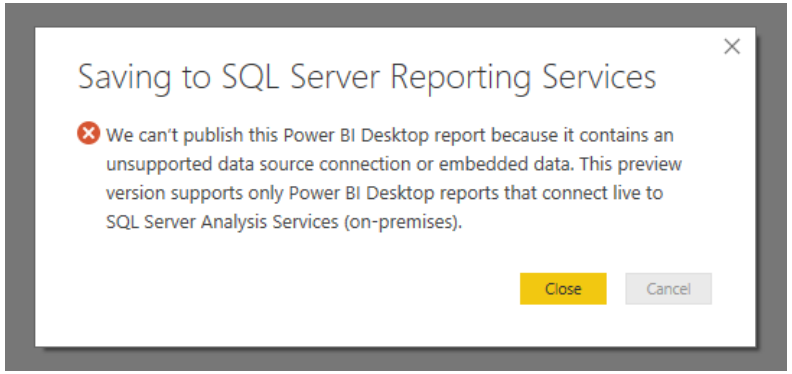
- Harmonizing report types
  - Paginated reports
  - Interactive reports (Power BI Desktop)
  - Mobile reports (Datazen technology)
  - Analytical reports and charts
- Reporting Services is our on-premises solution for BI report delivery
- **Publish Power BI Desktop Reports on-premises**

  […] we intend to add governed Power BI Desktop report delivery in the future […]
- Unified Mobile BI experience

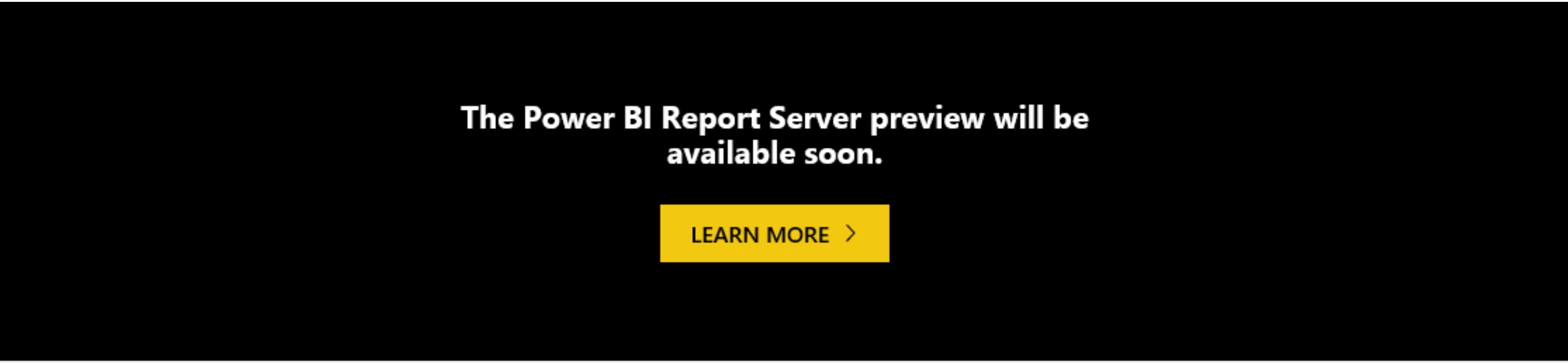
January 2017 Technical Preview

- New setup experience
  - SSRS installed outside SQL Server
- Power BI reports within the web portal
  - Reports created in Power BI Desktop service
  - Source data in SSAS





https://powerbi.microsoft.com/en-us/report-server/



Power BI Report Server

- Superset of SSRS
- You can migrate your SSRS 2008-2016 report server database to Power BI Report Server
- Power BI Report Server can serve
  - SSRS reports
  - mobile reports
  - Power BI reports

Power BI Pricing

Author	Share and collaborate	Scale large deployments
Power BI Desktop	**Power BI Pro**	**Power BI Premium**
Free	$9,99	Capacity pricing
	Per user per month	Per node per month
		Cloud • Power BI Premium P1 – $4,995/ Node/ Month • Power BI Pro licenses (report authoring) **On-Premises** • **Power BI Report Server** SQL Server Enterprise Edition + SA $7,000/ core • + Power BI Pro licenses (report authoring)

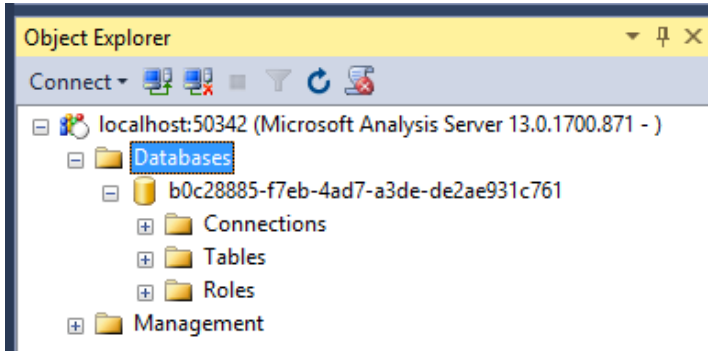
Editions Comparison (SSRS)

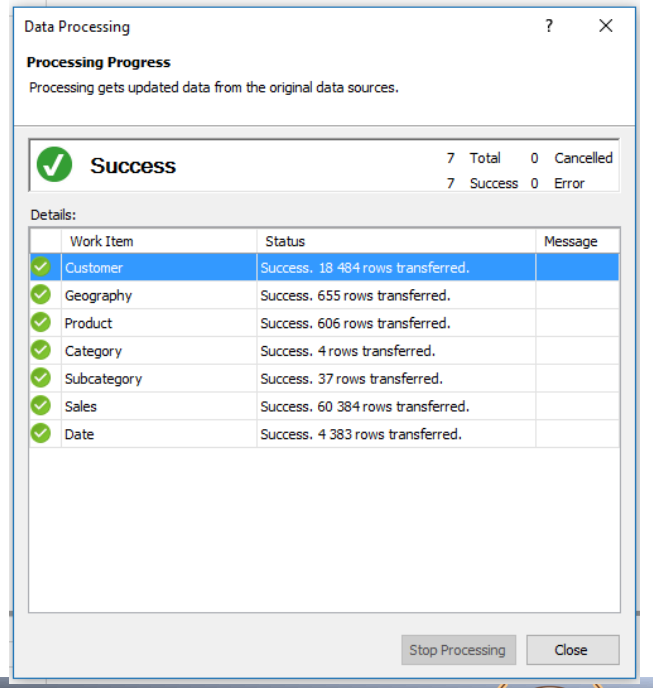
	Enterprise	Standard	Express with Adv Services
Max CPU	System max	4 sockets/24 cores	1/4
Memory buffer	System max	64 GB	4 GB
Custom roles (security)	YES	YES	-
Subscriptions	YES	YES	-
Report Snapshots/ caching	YES	YES	-
Custom branding	YES	-	-
Data driven subscriptions	YES	-	-
Scale out depl (Web farms)	YES	-	-
Alerting/PowerView (SharePoint mode)	YES	-	-
Mobile reports/ KPI	YES	-	-
Power BI on-premises	**YES (SA required)**		

Import Power BI Desktop Model to SSAS

1. Connect to Power BI Desktop model from Management Studio
   - TASKLIST /FI “imagename eq msmdsrv.exe” /FI “sessionname eq console”
   - netstat /ano | findstr “13XXX”
2. Script the database
   - Script -> Script database
   - Name: **PowerBI_DC_From_PBID**
   - CompatibilityLevel 1200
   - Change the database name
3. Execute the XML scripts on your on-premises instance of SSAS Tabular 2016
4. Open the new SSAS Tabular database in SSDT 2015 (Import From Server)
5. Modify the model
   - Existing Connections- Edit (OLEDB), Impersonation (for all)
   - Table Properties (table name), Validate
6. Model -> Process -> Process All
7. Redeploy

http://biinsight.com/import-power-bi-desktop-model-ssas-tabular-2016/





Demo2

- Power BI - save to SSRS (January 2017 Technical Preview)
- Import Power BI Desktop Model to SSAS

Links

- What's new in SQL Server Reporting Services (SSRS)
  https://docs.microsoft.com/en-us/sql/reporting-services/what-s-new-in-sql-server-reporting-services-ssrs
- Free Sample Mobile Reports for SQL Server 2016 Reporting Services
  https://christopherfinlan.com/2016/06/06/free-sample-mobile-reports-for-sql-server-2016-reporting-services
- How to create a custom brand package for Reporting Services with SQL Server 2016
  https://blogs.msdn.microsoft.com/sqlrsteamblog/2016/03/20/how-to-create-a-custom-brand-package-for-reporting-services-with-sql-server-2016
- What’s new in SQL Server 2016 SP1 for Reporting Services
  https://blogs.msdn.microsoft.com/sqlrsteamblog/2016/11/16/whats-new-in-sql-server-2016-sp1-for-reporting-services
- Top 5 Deprecated Features in Reporting Services 2016
  https://www.sqlshack.com/top-5-deprecated-features-in-reporting-services-2016

Links #2

- Reporting Services Features Supported by the Editions of SQL Server 2016 https://docs.microsoft.com/en-us/sql/reporting-services/reporting-services-features-supported-by-the-editions-of-sql-server-2016
- Power BI Report Server https://powerbi.microsoft.com/en-us/report-server/
- Power BI and Tableau Licensing Deconstructed and Compared VOL. 2 https://www.linkedin.com/pulse/power-bi-tableau-licensing-deconstructed-compared-vol-greg
- Power BI Licensing in Pictures https://www.linkedin.com/pulse/power-bi-licensing-pictures-greg-deckler-microsoft-mvp-
- Microsoft's Power BI Premium delivers enterprise-grade features and bulk discounts http://www.zdnet.com/article/microsoft-announces-power-bi-premium/

Thank you!

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