D365 POWER BI WEBCAST

Power BI

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Presenters

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Agenda

• Introductions
• Power BI Overview
  – Options
  – “How-To”
• Power BI and D365 Finance and Operations
  – PBI Embedded
  – OData
  – BYOD
• Demo
Power BI Overview - Power BI Desktop

• Free

• Used for
  – Power User
  – Authoring Power BI applications

• Connects to hundreds of data sources

• Download at
  – From the Microsoft Store (auto updates)
Power BI Overview – Power BI Pro

- Power BI Pro
  - $9.99/user/month
  - Shared content
  - Shared resource (with the world)
  - 1G per Power BI file
• Power BI Premium
  – Shared content
  
  – Capacity Pricing (>= $5K/month)
  
  – Overcomes concerns of shared resource and some limitations
  
  – 10G per Power BI file
Power BI Overview - Power BI Service

• Power BI Embedded
  – Power BI Service API
  – OEM play
  – Shared content
  – Tightly integrated with application (context in and out)
  – Direct Query (no external data, for now)
  – Bundled with D365 Finance and Operations
## Power BI Overview – Data Access

<table>
<thead>
<tr>
<th>Direct Query</th>
<th>Import</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data is regularly queried from the source each time an object is opened and when a selection is made</td>
<td>Data is loaded into Power BI to be optimized / manipulated</td>
</tr>
<tr>
<td>1 Million row limit</td>
<td>Limited to data that will fit in 1/10 G limit depending on Pro or Premium</td>
</tr>
<tr>
<td>Single data source*</td>
<td></td>
</tr>
<tr>
<td>Time Intelligence capabilities of DAX are not available</td>
<td>Multiple data sources are allowed</td>
</tr>
<tr>
<td>Keeps data “fresh” in Power BI</td>
<td>Complete refresh with each load, data is as “fresh” as the last refresh cycle</td>
</tr>
<tr>
<td>Performance is tied to source performance</td>
<td></td>
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</tbody>
</table>
• Required for refresh from Power BI Service for On-Premises data

• Creates a secure “tunnel” from the cloud service to your local database
POWER BI & D365
Power BI & D365

POWER BI EMBEDDED
- Panoramic Workspaces
- Near real-time results
- Contextual views
- Drill down into detail views

POWER BI.COM
- Access external data
- Data mash-up scenarios
- Power Q & A
- Custom visualizations

Roadmap is for general information purposes only and subject to change.
Power BI Embedded – D365

• Bundled with D365 Finance and Operations

• Near “real-time”

• Shared context

• Pin tiles and reports to D365 for users
Power BI Embedded – D365 Entity Store

- AxDW
- Aggregate measures/dimensions
- Refreshed from the transactional database on a schedule - “near real time”
• Exposed “end points”

• “End Points” are D365 Entities that are marked “IsPublic”

• Accessed via an OData connection string
Power BI – D365 & BYOD

• Configure your own database
• Data Export options
  – Full Push
  – Incremental Push
• Data management
• Access data with T-SQL
• External data mashups
• Leverages D365 Data Management to periodically push Entity Store data to a separate SQL Azure database
• Used to create a data foundation for “mash ups”
Power BI & D365 Demo

• MDR

• Power BI Embedded

• Power BI OData