

# MICROSOFT BUSINESS INTELLIGENCE AT A GLANCE

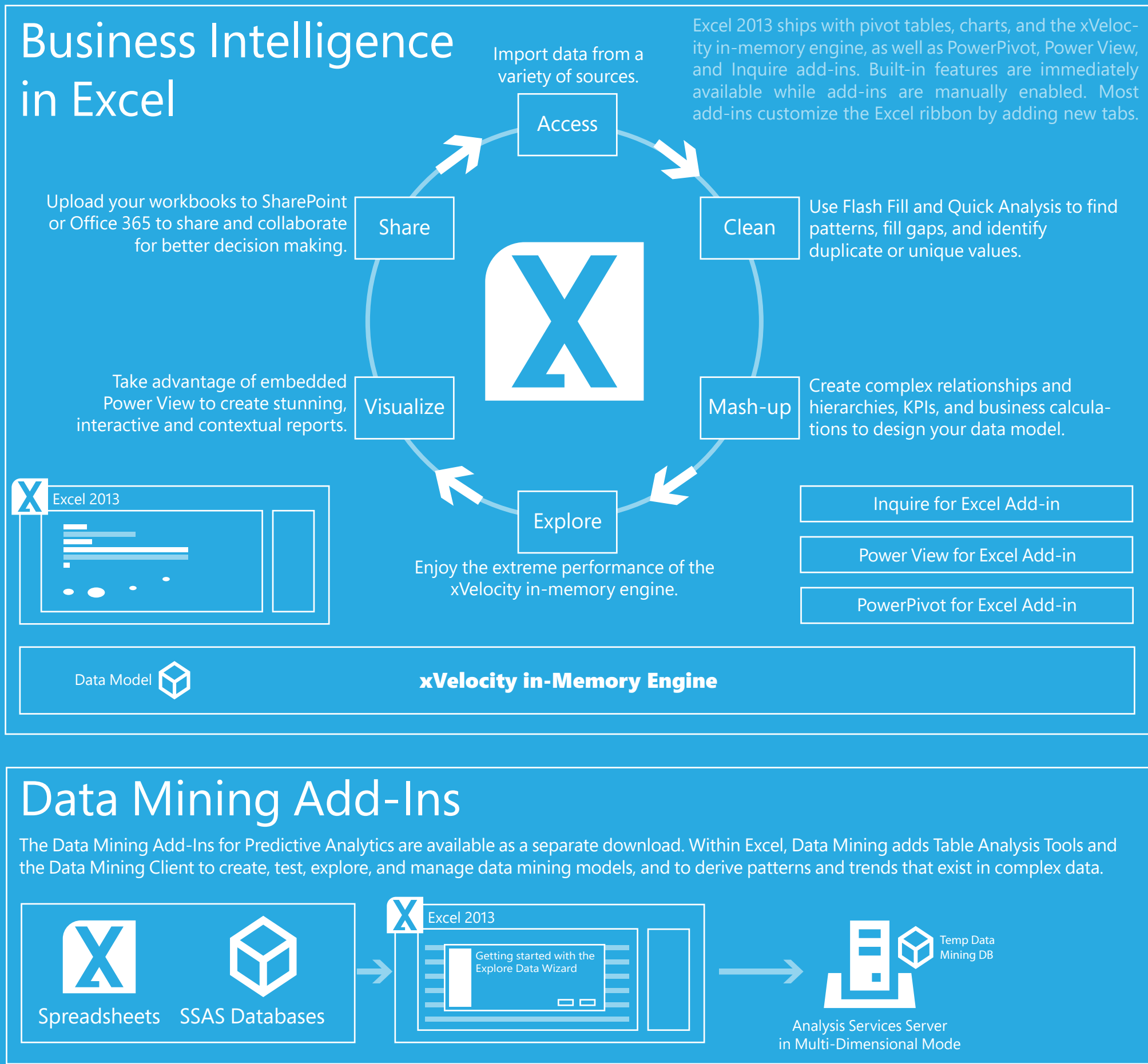
Clients

Presentation Subsystem

Information Sources

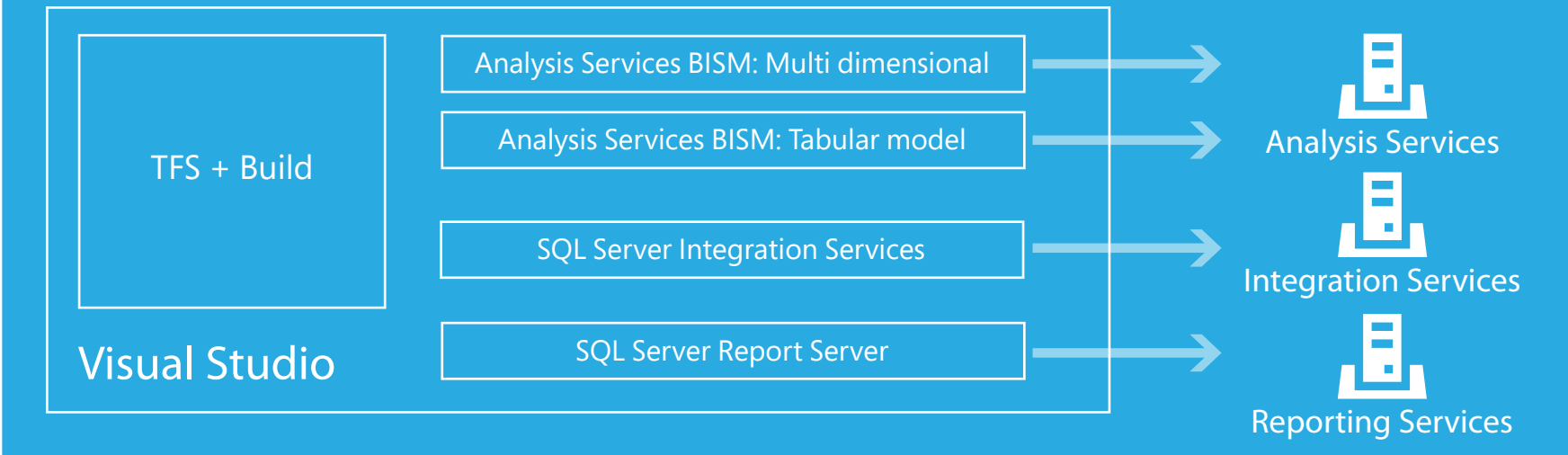
Data Sources

The Self-Service BI tool of choice is Excel 2013. You can import data from a variety of sources, clean it up in the Power View embedded data modeling tool, and then share the results in SharePoint SQL Server Data Mining (SSDT) and charts visualized through Power View and Reporting Services. On the other hand, a Visual Studio-based development environment for BI professionals to create Analysis Services, Integration Services, and Reporting Services solutions.



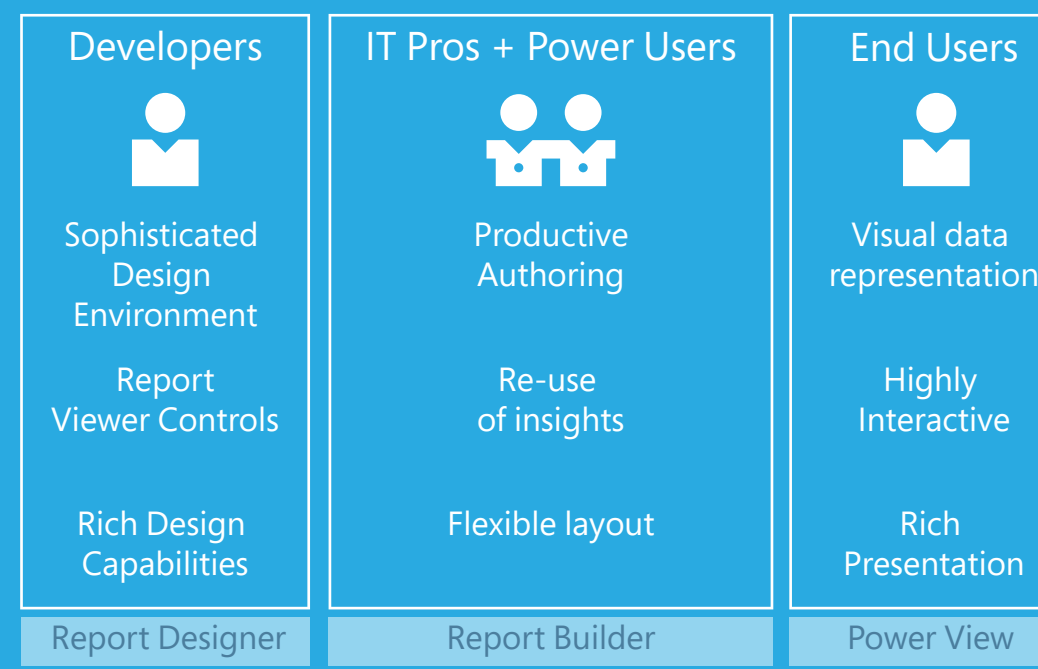
## SQL Server Data Tools

SSDT builds on the Visual Studio integrated shell, which provides the framework for the SSDT project types. If you install SSDT on the same computer as a full version of Visual Studio, SSDT will be integrated directly into Visual Studio. SSDT adds the following project templates for Business Intelligence to Visual Studio as VSPackages.



## Reporting Tools

Reporting Services offers several tools for authoring and deploying reports on a report server running in native mode. A report definition is typically an XML file in RDL format. RDL files are authored in Report Designer or Report Builder. Power View, on the other hand, is a feature of SQL Server 2012 Reporting Services for interactive data exploration, visualization, and presentation. Power View creates reports in a new file format, RDLX. An RDLX file is a package that is compatible with a compressed (.zip) file. The structure within the RDLX file follows the rules that are outlined in the Open Packaging Conventions (OPC).



## Explore

Microsoft BI enables you to discover and analyze data using familiar desktop applications, namely Excel. Most Microsoft BI technologies integrate with Excel, such as PowerPivot and Power View. With the xVelocity in-memory engine integrated into Office 2013, Excel users can analyze large datasets in a matter of seconds, and Power View lets you build visually attractive and contextual reports.



## Visualize

Information workers are accustomed to visualizing data interactively in Excel through pivot tables and charts on a worksheet. A new option in Excel 2013 is the Power View sheet. Each sheet has its own charts, tables, and other visualizations. A single Excel workbook can contain multiple Power View sheets, and each of the sheets can be based on a different data model.

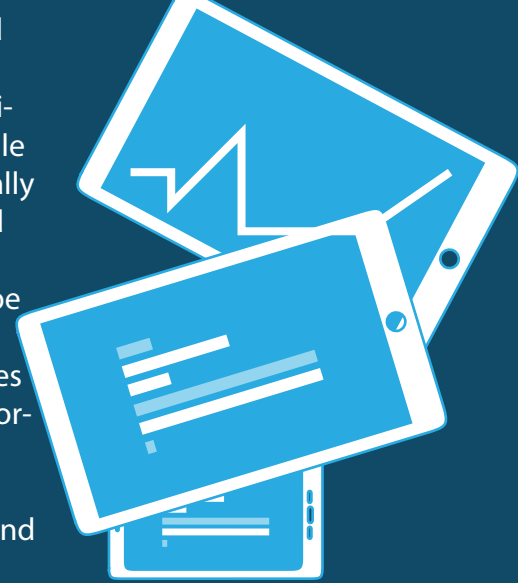


## Control

Having users gain more actionable insights through self-service BI solutions requires IT to deliver BI services to the organization at a new level of manageability, control, and compliance. Microsoft BI includes tools for IT to monitor and protect BI assets without hampering user agility and creativity, which help to create what we call "Managed Self-Service BI".

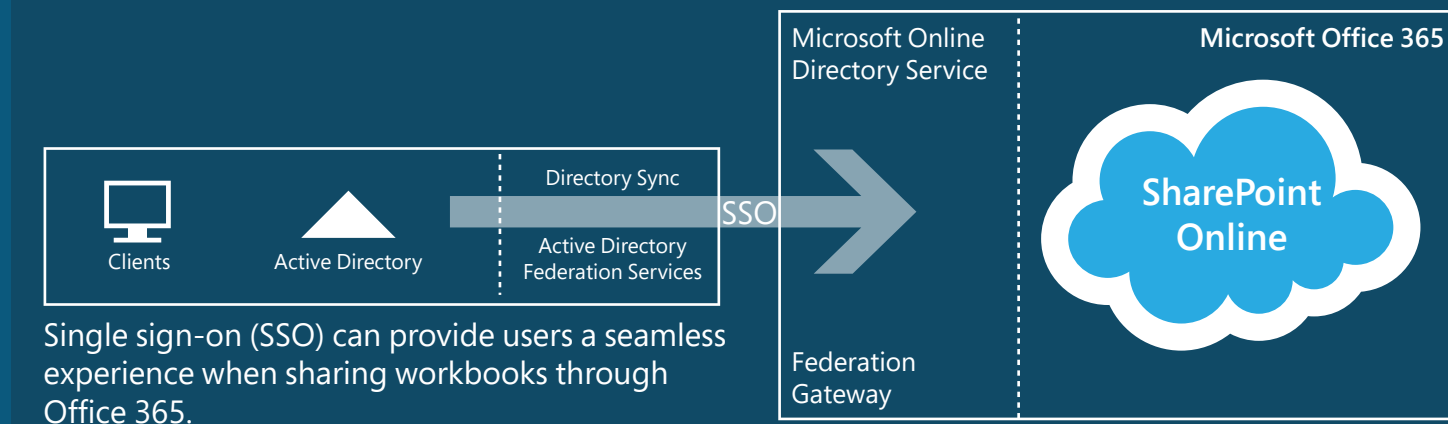
## Mobile BI

Microsoft browser-based mobile business intelligence can be best experienced on Windows mobile devices and is also officially supported on Apple iPad devices. Business intelligence content that can be viewed on Windows and Apple iPad mobile devices includes SharePoint PerformancePoint dashboards, scorecards, Reporting Services, Excel Services and Visio Services reports.

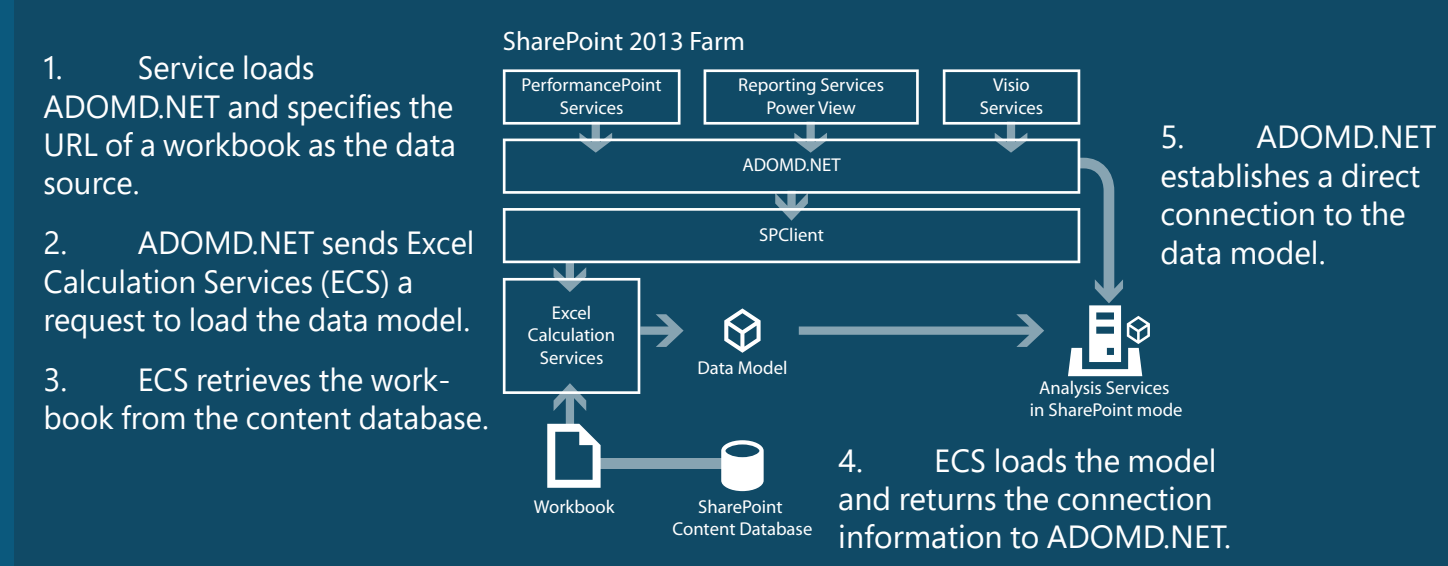


## PowerPivot Workbooks in Office 365

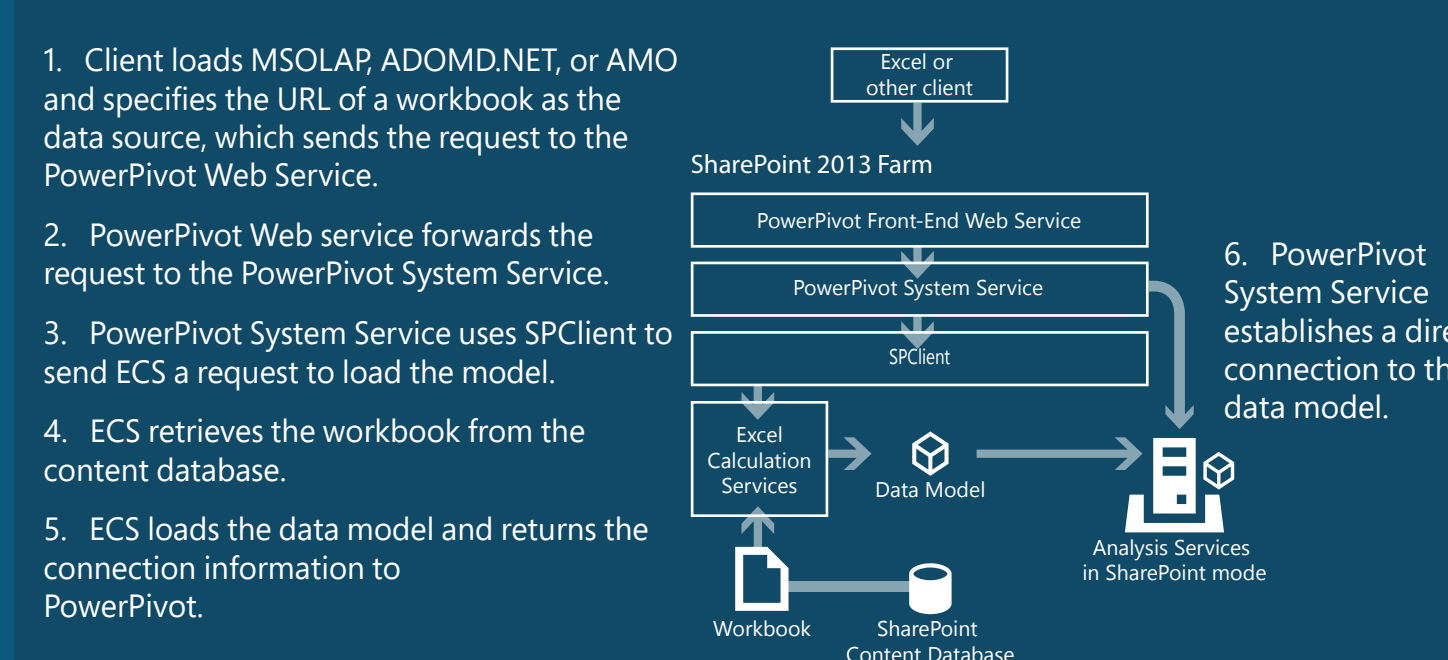
Excel Services in Office 365 enables browser interactivity for workbooks that have been made tablet-friendly. You can sort, filter and pivot on data, interactively drill up, down with the new "Quick Explore" and change pivot tables in the PowerPivot Field List. For data embedded in Excel tables, users can also refresh the data model and see the changes in the pivot tables and charts. Excel Services in Office 365 also supports the display of Power View sheets with all of its interactivity to visualize your insights.



## Farm-Internal Access to Workbooks as a Data Source

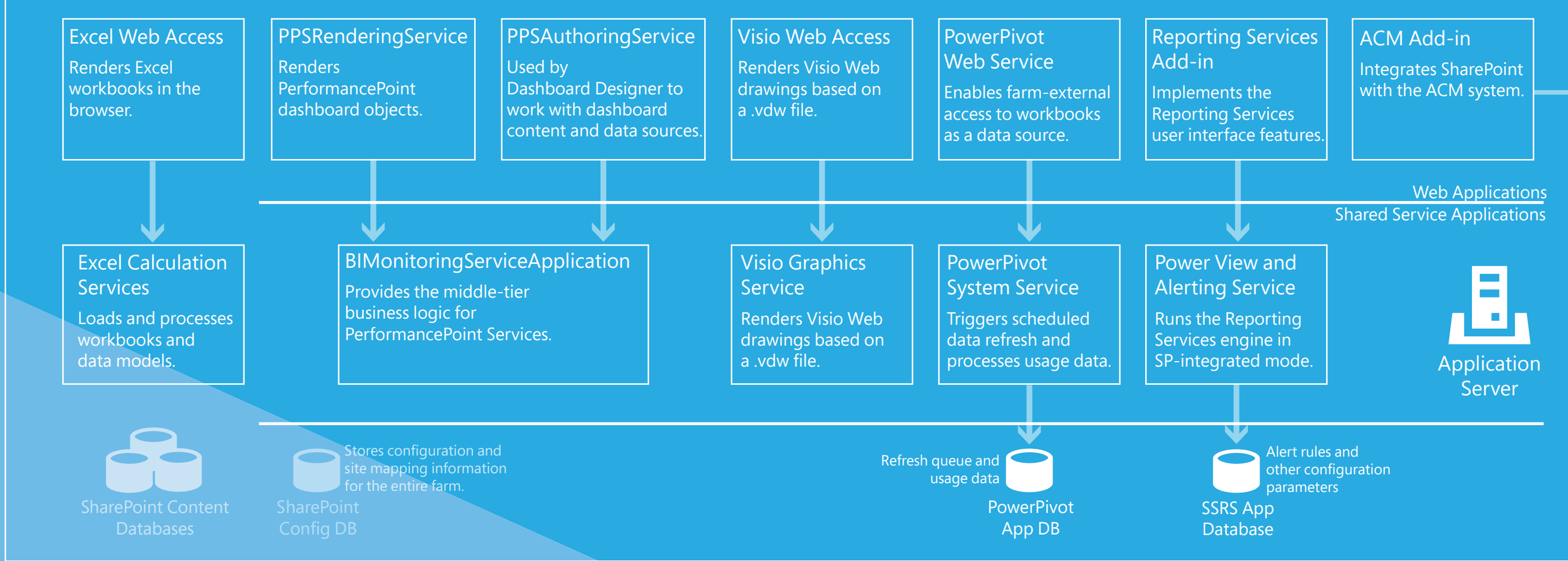


## Farm-External Access to Workbooks as a Data Source

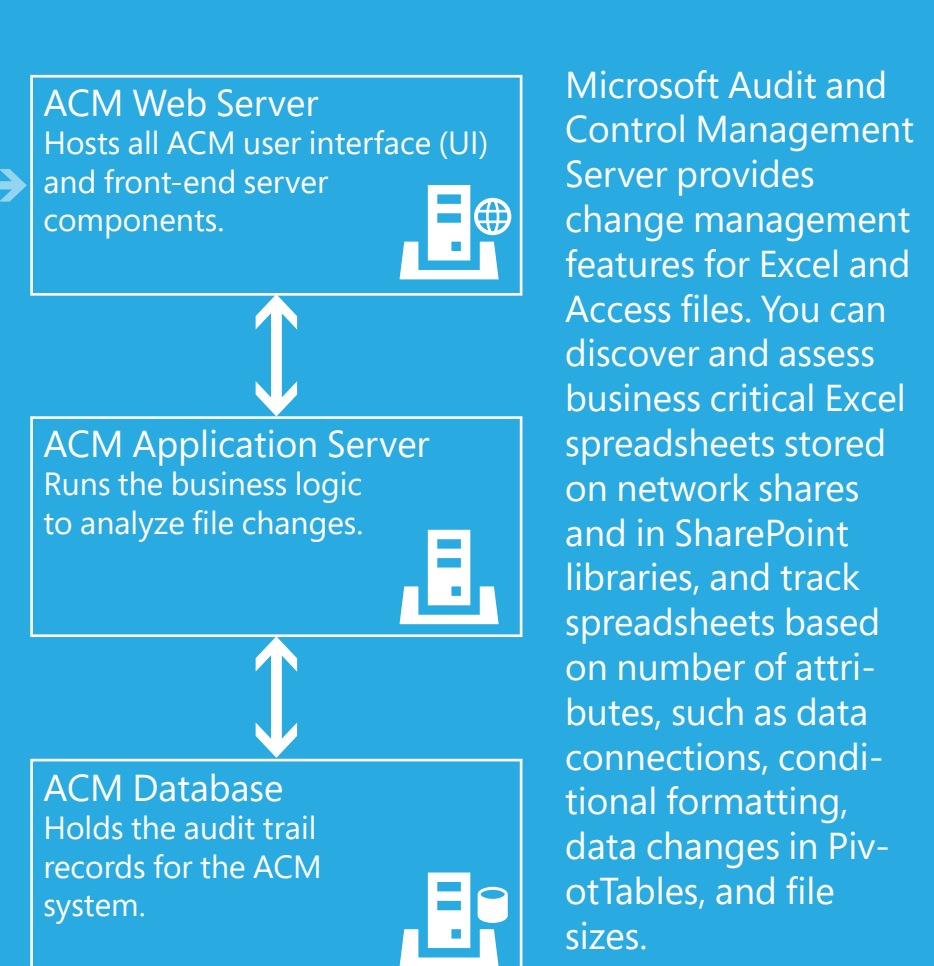


## SharePoint Server 2013

Excel Service, PerformancePoint Services, and Visio Services are included in SharePoint Server 2013. PowerPivot for SharePoint 2013 and Reporting Services Power View for SharePoint 2013 are available with SQL Server 2012 Service Pack 1.

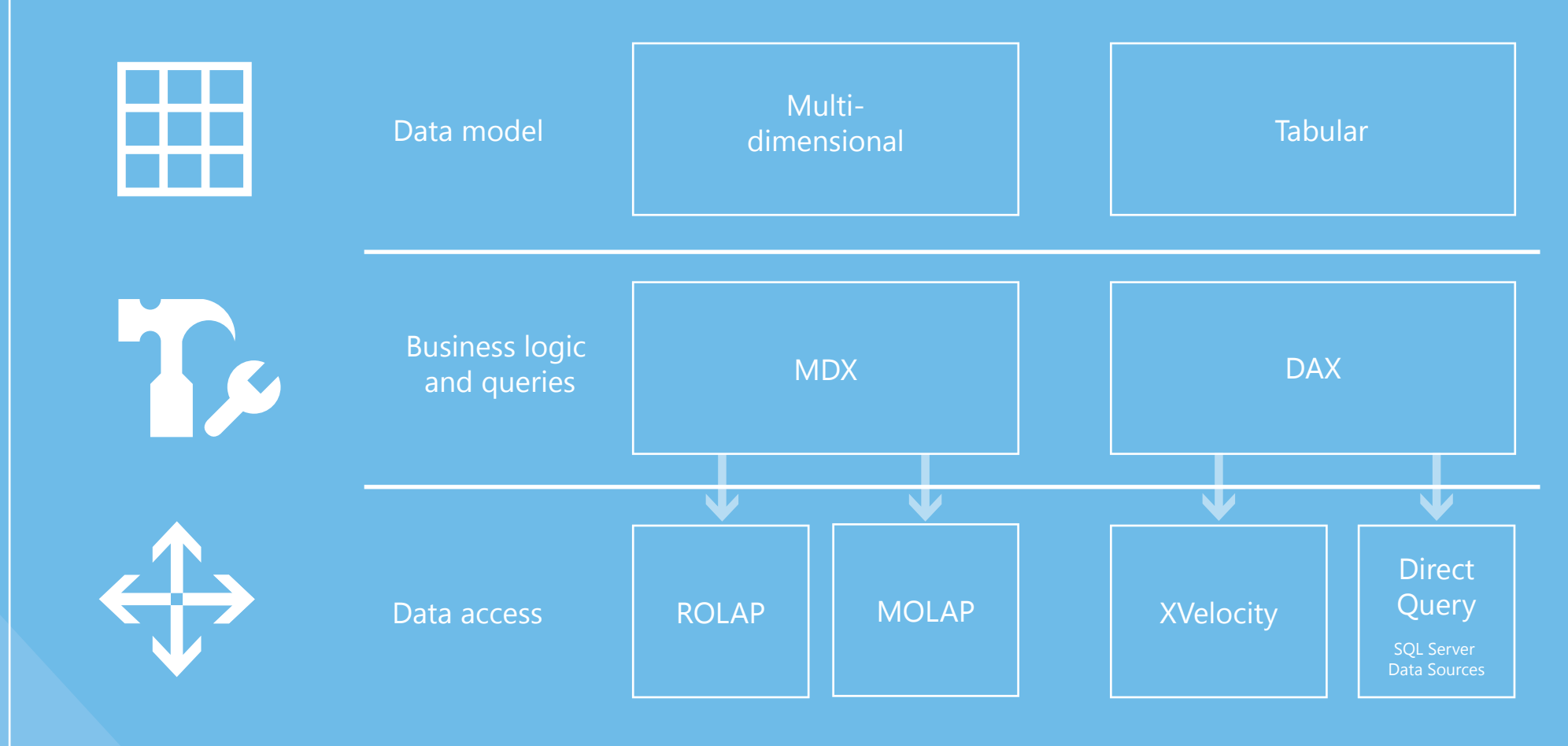


## Audit and Control Management Server



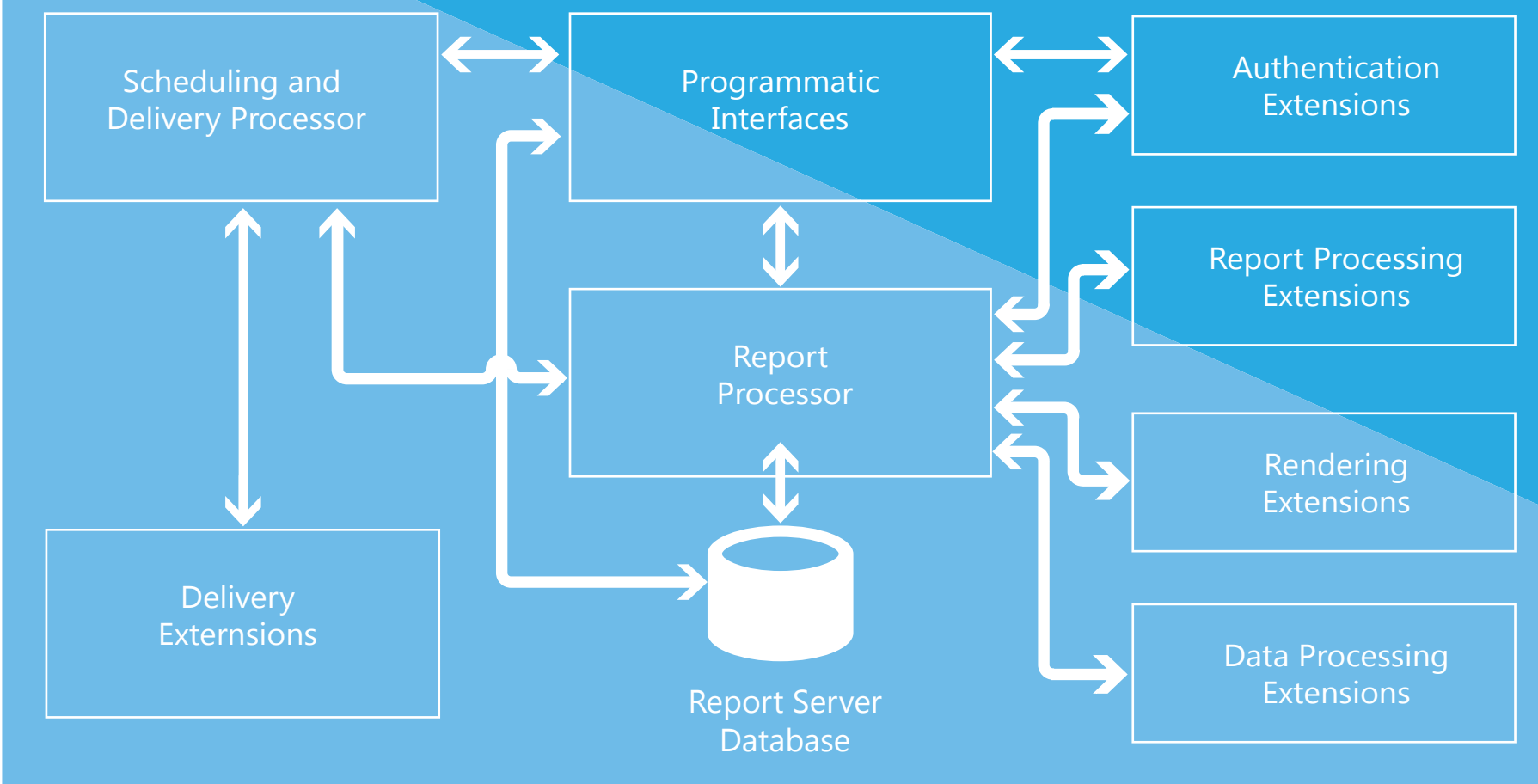
## BI Semantic Model in Analysis Services

The BI Semantic Model (BISM) is a single model for BI applications, from reporting and analysis to dashboards and scorecards, enabling users to have a consistent view of their data. It provides flexibility in design and creation of business logic including direct access to the underlying data for real-time analysis.



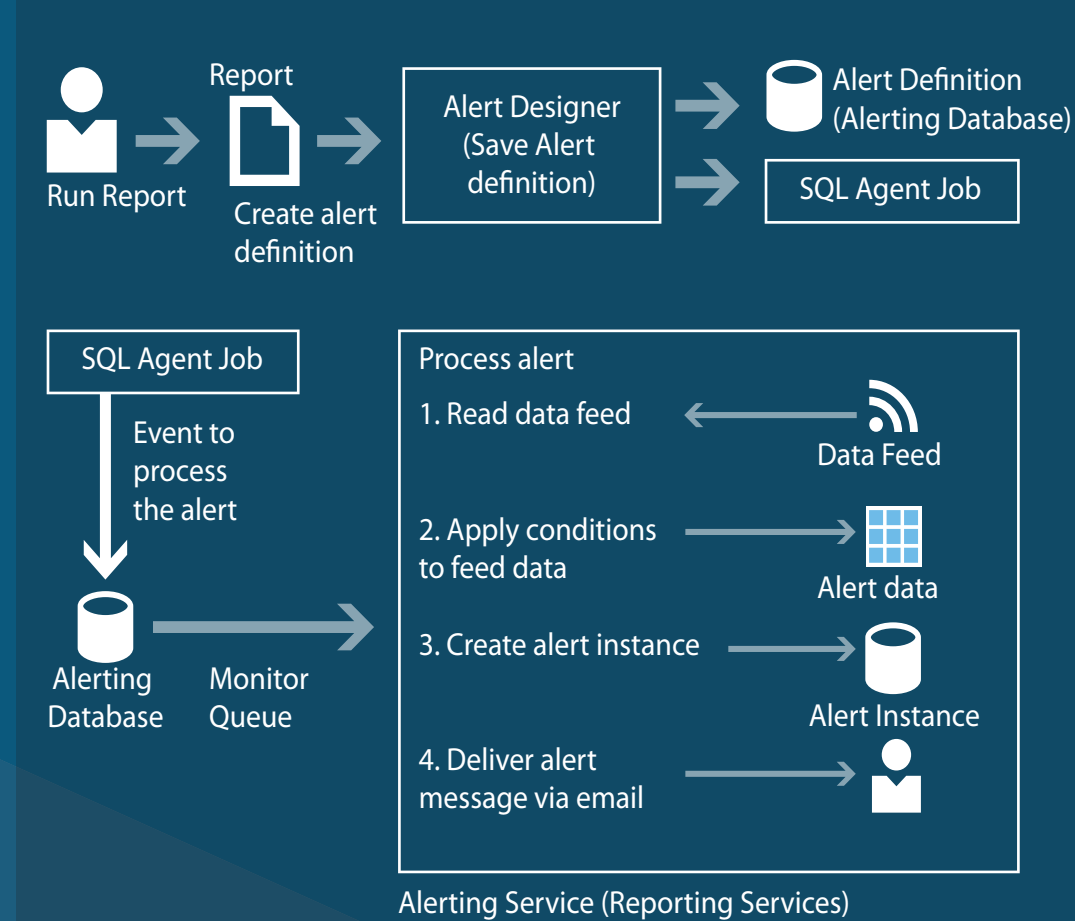
## Native Mode Reporting Services

In native mode, the report server provides all viewing, management, processing, and delivery of reports and report models. Clients include Report Manager, Report Builder, Report Designer, Web parts, and third-party tools. Note that Reporting Services Power View is not available in native mode (SharePoint-integrated mode only).

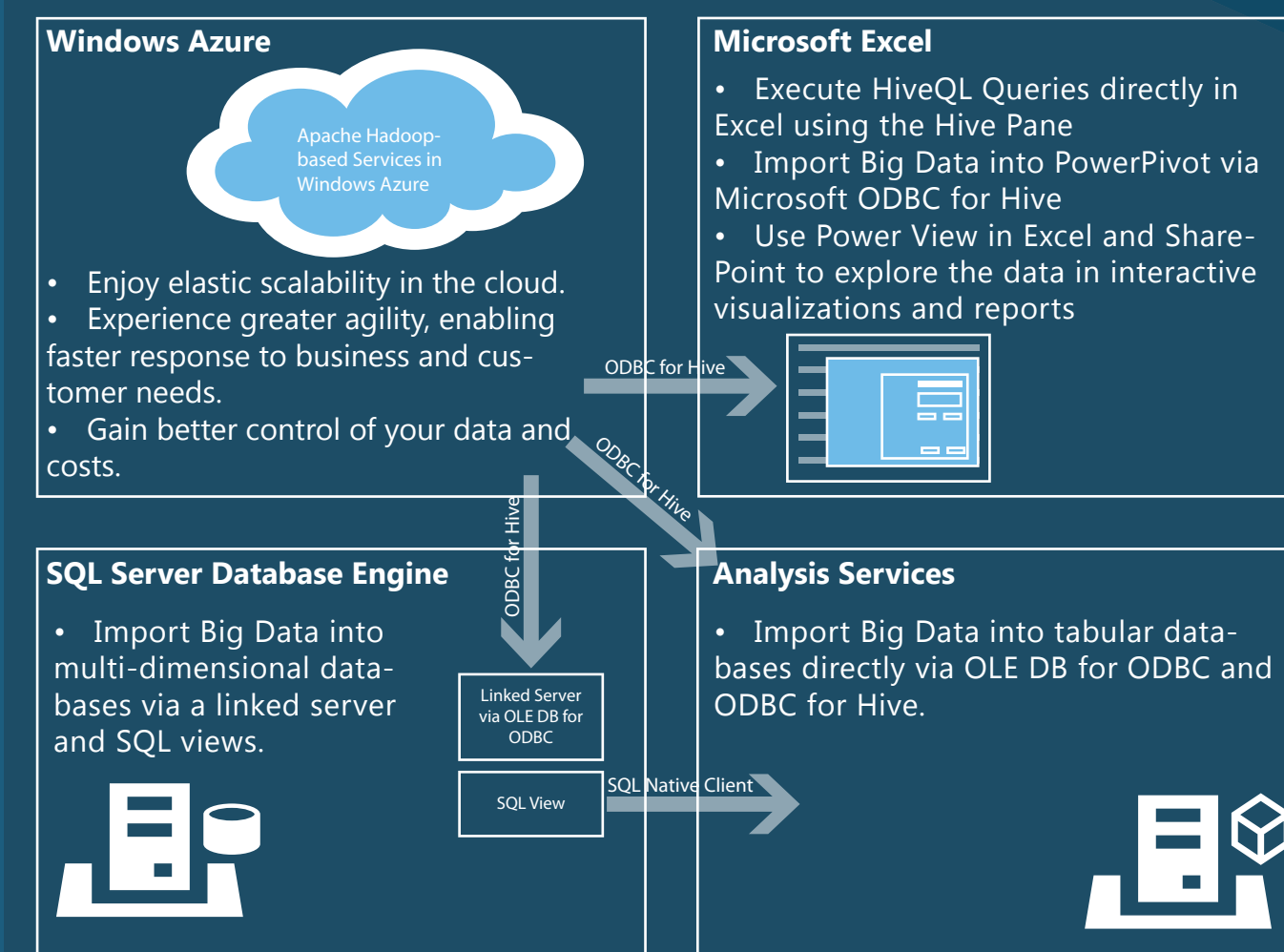


## Reporting Services Data Alerts

Data alerts are a data-driven alerting solution for any user that can access reports to setup alert rules and be alerted when report data changes occur that match the defined set of rules. Data alerts messages are sent by email. Depending on the importance of the information, you can choose to send alert messages more or less frequently and only when results change. You can specify multiple recipients for the alert messages and this way keep others informed and enhance efficiency and collaboration.



## Big Data Analytics



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