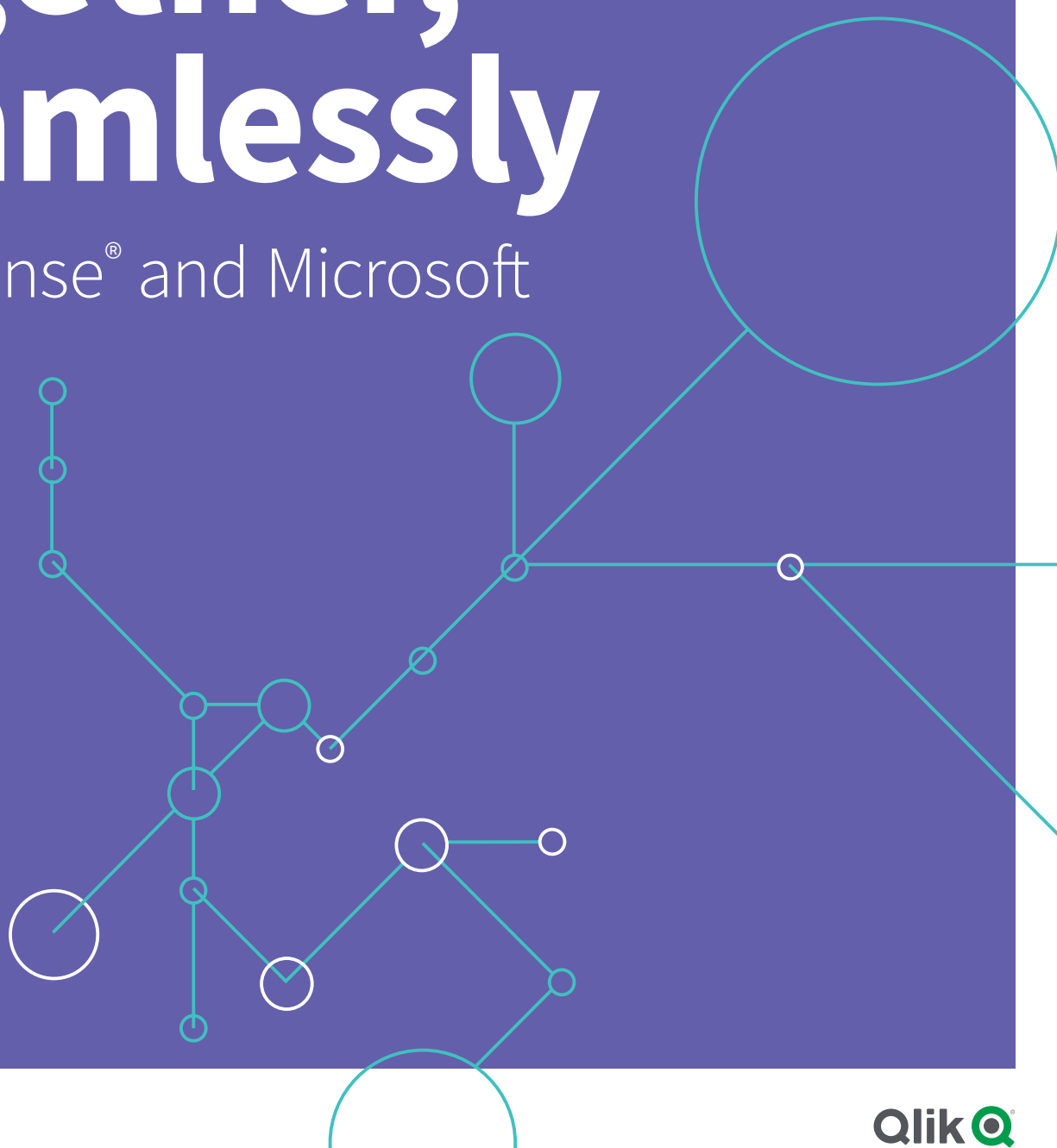


DATA ANALYTICS

Working Together, Seamlessly

Qlik Sense[®] and Microsoft



INTRODUCTION

Together, Qlik® and Microsoft give your enterprise more freedom and flexibility to choose where your data should be kept, where your analytics should take place, and where your users can access data seamlessly — whether on-premises or in the Microsoft Azure cloud.



We're helping you boost efficiency and productivity by making sure our Qlik analytics products can be quickly and seamlessly provisioned on the Microsoft Azure Platform. We're also giving your organization maximum flexibility in how you deploy solutions by letting your users easily combine on-premise information with cloud-based data sources. And our built-in Qlik Sense and QlikView® connectivity to the large and growing number of Microsoft products and services is designed to help you improve and accelerate decision making.

Customer Spotlight

IWB (Industrielle Werke Basel) supplies more than 250,000 customers with energy, water, and telecommunications in the Swiss region of Basel. IWB is a leader in the fields of renewable energy and energy efficiency. The company owns 22 wind farms, three extensive photovoltaic plants, and several medium-to-small photovoltaic roof plants in France, Germany and Switzerland, or participates in them.



CHALLENGE



- Difficulty monitoring and analyzing data collected from wind turbines using multiple SCADA (Supervisory Control And Data Acquisition) systems
- Wanted to optimize wind turbine maintenance schedules and downtime

SOLUTION



- Data is first combined on an internet-of-things (IoT) platform using Microsoft's cloud computing platform, Azure
- Qlik – running on a fully managed cloud environment – is then used to monitor the condition of IWB plants overall and their individual components as well as conduct all analysis
- Data volume, which was initially 50 million records, is growing each month by three or four million
- Data is updated every 15 minutes

BENEFITS



- IWB is able to monitor current production across national borders and in real time, allowing the company to operate power trading and perform maintenance more efficiently
- The integration of weather data has allowed IWB to schedule optimal maintenance dates by working around positive wind condition periods
- IWB can quickly notify its technical plant manager of any unusual SCADA data values so the manager can quickly evaluate and resolve problems on location
- Performance data transparency has allowed IWB to reduce downtime at one turbine from 135 hours to approximately 5 hours

Qlik gives us the decision-making basis for trading electricity more efficiently. Automated alerts and predictive analyses enable us to immediately intervene if problems arise in the wind turbines. This provides us with the best conditions to maintain and enhance our long-term competitiveness.

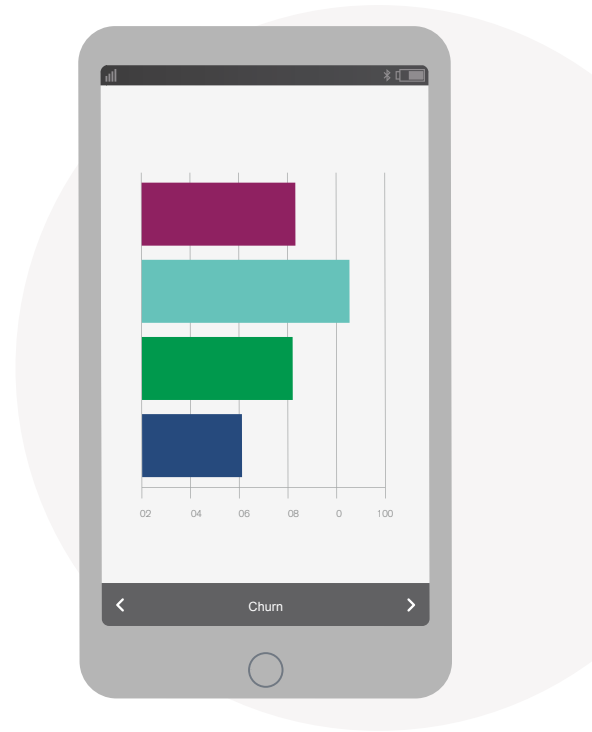
DIRK OEHLMANN

Assets Manager, Vice President IT & CIO, IWB anendra Datta

Qlik on Microsoft Azure

Qlik Sense Enterprise

Qlik Sense Enterprise deployed on Azure lets your enterprise take advantage of our revolutionary, enterprise-level data analytics platform while leveraging any existing license investment in Azure. Our Qlik Analytics Platform® running on a cloud infrastructure gives you unprecedented flexibility, including being able to utilize already-purchased licenses or purchase new licenses from us or our partners, and deploy and run our Qlik technology on the private or public cloud. Now you can harness the power of our data analytics platform on best-of-breed cloud infrastructure for greater scalability, agility, security, and rapid time to value.



Microsoft Services

Microsoft Azure CosmosDB

CosmosDB is a fast-growing, multi-model database service in Azure that offers several APIs – of which, the SQL API provides connectivity to Qlik Sense with both the Microsoft ODBC driver and the MongoDB driver.

Microsoft Intune

Microsoft Intune, an enterprise mobility management (EMM) service, manages mobile devices and apps. It integrates closely with other EMS components such as Azure Active Directory (Azure AD) for identity and access control, and Azure Information Protection for data protection. You can deploy and configure our Qlik Sense Mobile app using Azure and Microsoft Intune.

Microsoft Office

Microsoft Exchange

Our Qlik Mailbox IMAP Connector lets you fetch emails and email content, such as information about attachments that use the IMAP email protocol, including Microsoft Exchange.

Microsoft Excel

Sometimes considered the most widely used business application, Excel seems to be everywhere. Our Qlik Analytics Platform natively connects to Excel spreadsheets, making it easy for your users to gain new insights into your data. Just drag-and-drop to apply the power of Qlik to any Excel spreadsheet or easily combine the spreadsheet with other data sources.

Microsoft Office 365

Our Qlik Office 365 Connector supports Microsoft Office Suite connectivity – in the cloud or on-premises. This includes Excel and Microsoft Access connections through native Qlik connectivity, Access ODBC drivers, or an OLE Provider with the Qlik Web Connectors package.

Microsoft SharePoint

Our Qlik Office 365 SharePoint Connector lets you fetch data from your SharePoint account. In addition, you can connect to Microsoft SharePoint 2010 & 2013 using our Qlik OData Connector. Our native REST Connector also gives you a connection to Microsoft SharePoint Lists.

Microsoft OneDrive

With our Qlik OneDrive Connector, you can access data located on your personal OneDrive. You also can select data from files and folders, and load that data into your Qlik Sense application.



Microsoft Data Platform

Microsoft SQL Server

Our native Microsoft SQL Server and Microsoft SQL Server Analysis Services Connectors allow you to analyze Microsoft's general-purpose relational database, including structures such as relational data, JSON, spatial, and XML.

Microsoft Business

Microsoft Dynamics CRM

Our Qlik Microsoft Dynamics CRM Connector lets you run FetchXML queries to get Microsoft Dynamics CRM data – online or on-premises – and load it directly into your Qlik Sense apps.

Learn More

[Qlik Sense in the Azure marketplace »](#)

[Qlik Sense and Azure AD »](#)

[Qlik Community – Technology Partners Ecosystem \(Microsoft related\) »](#)



About Qlik

Qlik's vision is a data-literate world, where everyone can use data and analytics to improve decision-making and solve their most challenging problems. Our cloud-based Qlik Active Intelligence Platform delivers end-to-end, real-time data integration and analytics cloud solutions to close the gaps between data, insights and action. By transforming data into Active Intelligence, businesses can drive better decisions, improve revenue and profitability, and optimize customer relationships.

qlik.com