



BROCHURE

EPAM Connectors for KNIME



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The EPAM Connectors for KNIME provide a seamless way to access, integrate and visualize complex data using the KNIME analytics platform and server. The connectors cover the full lifecycle of processing data from secure data load, to data manipulation, machine learning, predictive analytics and data visualization.

The EPAM Connectors for KNIME integrate data sources that are not covered by the standard connector nodes of KNIME, and include:

- TIBCO Spotfire® Integration
- SAP HANA Integration
- SAP Business Warehouse (SAP BW) Integration
- Cloud Integration for Microsoft OneDrive for Business and SharePoint 2016

SUPPORTED BI APPLICATIONS & DATA SOURCES

- KNIME Analytics Platform and Server
- SAP Business Warehouse
- SAP HANA
- Microsoft OneDrive for Business and SharePoint 2016
- TIBCO Spotfire®

EPAM Connectors For KNIME (cont'd)

BENEFITS & VALUE

Access & analyze data from multiple sources

- Extract, Transform and Load data from the Cloud and/or SAP solutions
- Utilize predictive analytics in KNIME for better business outcomes
- Analyze results in Spotfire
- Deliver true end-to-end data analysis
- Provide better understanding of business challenges and questions

Reduce costs & maximize investments

- Minimize dependency on IT involvement and/or SAP experts to access data on SAP BW or HANA
- Leverage the user-friendly interface of KNIME to automate BEx queries, HANA functions and Spotfire data load
- Connect enterprise BI tools seamlessly

Maintain & ensure data and row level security using cloud access control and SSO

- Use Microsoft authentication to grant access to files on OneDrive or SharePoint (multi-factor authentication using Ping Identity)
- Achieve row-level security with Spotfire credentials used as KNIME workflow variables



EPAM Connector for KNIME—Spotfire Integration

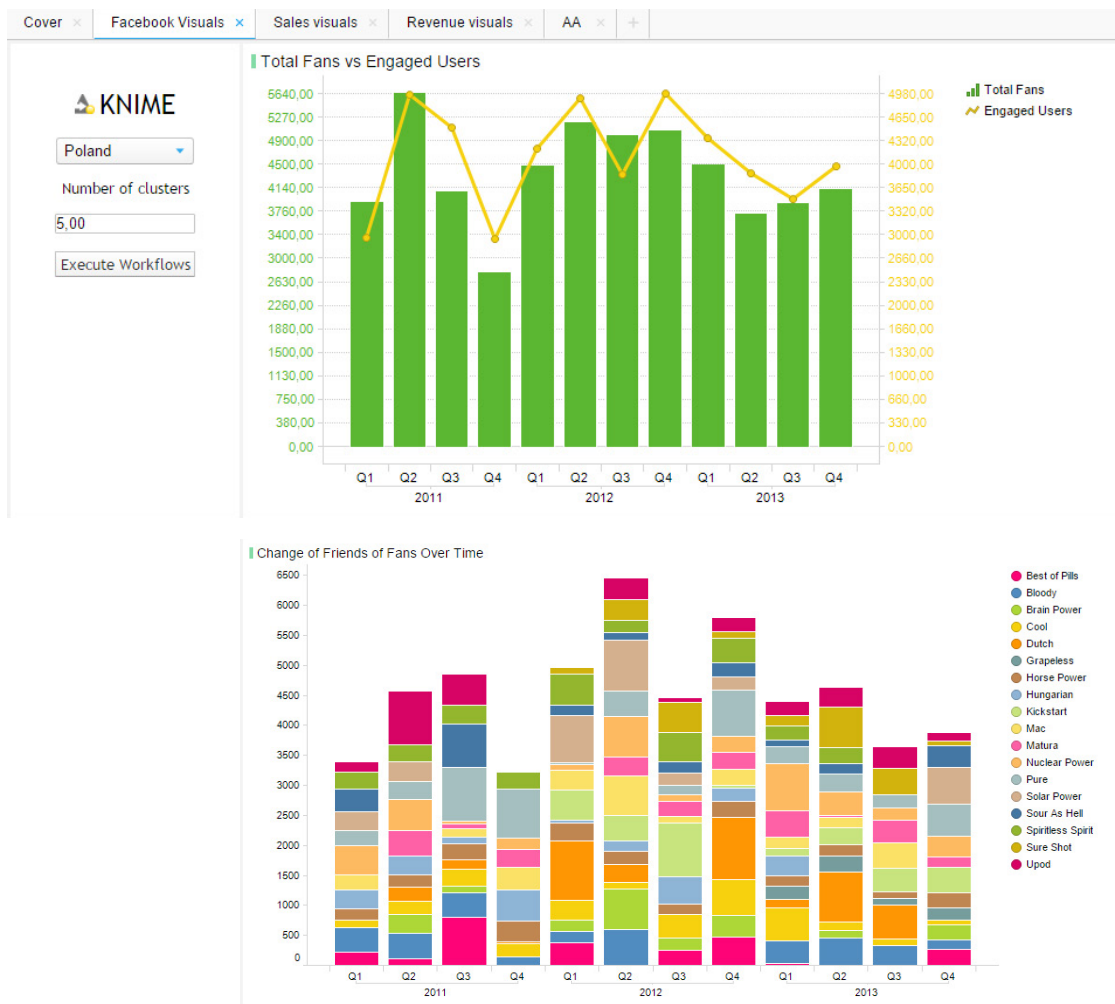
Combine the Power of Data Discovery with High-Level Visualization

CHALLENGES

Manipulating or wrangling data, finding insights in large data sets, or testing and running advanced analytics algorithms pose a number of challenges for analysts. Many tools are often used, and manual steps are needed to move between environments, impeding the speed of work and discovery of new insights.

SOLUTION

The EPAM Connector for KNIME – Spotfire Integration enables business users to perform advanced analytics investigations and calculations on large data sets, transform data and visualize results in TIBCO Spotfire. By fully embedding KNIME workflows within existing Spotfire applications, the connector can eliminate manual work and errors from loading data between platforms and automating data refresh with data function.



EPAM Connector for KNIME—Spotfire Integration (cont'd)

KEY FEATURES

- Run configured KNIME workflows from Spotfire
- Concurrent usage of KNIME workflows
- Set workflow parameters in Spotfire
- Connect to both KNIME desktop and server
- Automate data refresh
- Compatible with TIBCO Spotfire 6.5+, KNIME Platform 2.10+ and TIBCO File Writer Node

BENEFITS

Agile Analytics on Massive Data Sets

- Integrate TIBCO Spotfire environment with the KNIME analytics platform
- Eliminate manual work and errors of loading data from KNIME to Spotfire
- Automate data refresh with Spotfire Data Functions
- Run analytics on massive data sets
- Easily modify visualization without rebuilding the ETL process
- Manipulate data affluently
- Provide simple usage with no coding needed

EPAM Connector for KNIME—SAP HANA Integration

Unleash the Potential of SAP HANA to Deliver Insights & Analytics

CHALLENGES

Even with best-in-class data and analytics systems, they may not work together as seamlessly as your organization demands. The alternatives are work-arounds and home-grown solutions that may be cumbersome to support and restrict use to skilled developers.

SOLUTION

The EPAM Connector for KNIME – SAP HANA Integration allows businesses to easily connect with SAP HANA and simplify advanced BEx queries and functions. The connector features a guided and easy-to-use interface, BEx query navigator, smart filtering, intelligent query parameter input fields and auto-populated query parameters. EPAM's connector uses SAP HANA data just like every other data source and provides the ability to preview data and view query results.



BENEFITS

Enterprise Ready

- Leverage SAP HANA data easily in any KNIME workflow
- Use SAP HANA data as simply as any other KNIME data provider node
- Access SAP HANA and complex data sets without coding
- Close the integration gaps in SAP-oriented enterprises when using SAP data
- Emphasize SAP HANA data in any KNIME workflow

EPAM Connector for KNIME—SAP BW Integration

Enhance Advanced Analytics with Enterprise Data Directly from SAP BW BeX Queries

CHALLENGES

SAP Business Warehouse (BW) hosts key data for organizations and is often difficult to directly integrate with KNIME to share data.

SOLUTION

The EPAM Connector for KNIME – SAP BW Integration allows organizations to access data surfaces over BEx queries by supporting dynamic query parameters. Additionally, the connector provides secure enterprise data access through the native SAP solution built with SAP JCo Connector.

KEY FEATURES

- Native integration of SAP BW directly into both KNIME desktop and server
- Easy access of corporate data stored within SAP BW
- Ability to digest, transform and analyze enterprise data directly from SAP BW
- Eliminates sophisticated data extracts by providing storage of temporary extracts needed to analyze SAP BW data within KNIME
- Minimizes IT involvement or utilization of SAP experts to access SAP BW data to build rapid advanced analytics solutions
- Includes two KNIME Nodes (SAP BW Connector Node and SAP BW BEx Query Parameter Configurator Node)

BENEFITS

Secure Enterprise Data Access

- Quick access to SAP BW data when building data science prototypes
- Lightweight local workspace and data science notebook that leverages enterprise data from SAP BW when building advanced analytics prototypes
- Extract, Transform and Load data from SAP Business Warehouse to empower analytics

EPAM Connector for KNIME—Cloud Integration

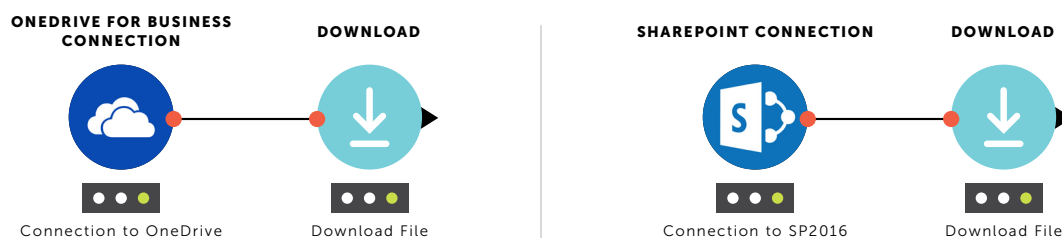
Empower Advanced Analytics with Enterprise Data Directly from Microsoft OneDrive & SharePoint

CHALLENGES

Having the ability to read data from multiple files stored on OneDrive, OneDrive for Business or SharePoint, and manipulate it directly inside KNIME can empower analytics-driven decision-making. However, accessing data files stored on secured cloud servers is not possible within the current capabilities of KNIME.

SOLUTION

The EPAM Connector for KNIME – Cloud Integration allows your organization to access files stored on secured cloud storage directly from KNIME workflows. Data can be read securely on multiple files stored on OneDrive, OneDrive for Business or SharePoint through Single Sign-On (SSO) and can be reused directly inside KNIME to power analytics.



KEY FEATURES

- Native access to Microsoft OneDrive, OneDrive for Business and SharePoint directly from KNIME using custom nodes
- Ability to connect all KNIME Remote File handling nodes to the EPAM Cloud Nodes to access functionalities, such as File Download, List Remote Files, Upload, Delete Files and Create Directory
- Digest, transform and analyze enterprise data directly from OneDrive or SharePoint
- Eliminates sophisticated data extracts by providing storage of temporary extracts needed to analyze data stored on the cloud within KNIME
- Includes three custom KNIME Nodes (SharePoint Connection, OneDrive Connection, OneDrive for Business Connection)
- Enterprise-ready and SSO functionality, including integrated multi-factor authentication

BENEFITS

Secure Enterprise Data Access

- Access structured or semi-structured data securely and easily
- Two-way integration facilitates easy deployment and sharing of KNIME workflow results
- Self-service business process automation