



QUADRANT

OVERVIEW OF MIGRATING FROM SPOTFIRE TO MICROSOFT FABRIC



Migrating from Spotfire to Microsoft Fabric involves transferring datasets, visualizations, and workspaces to a comprehensive platform that centralizes data management, real-time analytics, and BI. Fabric enhances scalability, flexibility, and provides advanced tools for better insights and unified data handling.

Fabric Adoption Methodology

Quadrant follows a structured methodology to onboard customers onto Microsoft Fabric. It involves the following steps

- Assessment
- Adoption – Follows the 4 C's Framework
 - Competence
 - Consultation
 - Certainty
 - Customer Satisfaction
- Acceleration
- Adherence to Enterprise Scale
- Aligning with industry-standard solutions with Microsoft Fabric's integrated capabilities.

Spotfire to Microsoft Fabric Inventory Tool

This tool allows customers to accelerate the inventory assessment by using Rest APIs for the following:

01. Data Ingestion

Migrates data from various sources into Fabric's unified data ecosystem.

02. Enhanced Data Governance

Fabric's Medallion Architecture includes data cleansing, standardization, and a Data Quality and Governance Platform (DQGP), ensuring reliable data for analytics

03. AI-Powered Context Models

Leverages Fabric's large language models (LLMs) for automated business context modeling, enabling AI-driven insights.

04. Co-Pilot/GenAI Templated Reports

Provides quick, adaptable reporting with AI assistance, automating report creation and customization

05. Real-Time Analytics

Supports continuous real-time analytics with end-to-end alerts for time-sensitive insights.

Key Components of the Inventory Tool

01. Real-Time Analytics

- Data Source Type: Database, file, API, etc.
- Data Volume: Size of the data source.
- Data Frequency: How often the data is updated.
- Data Quality: Data cleanliness and accuracy.
- Data Security: Access controls and encryption

02. Workbook and Dashboard Inventory

- Workbook Name: Unique identifier.
- Owner: Responsible individual or team.
- Purpose: Business use case.
- Data Sources: Data onboarding sources.
- Visualizations: Types of visualizations used.
- Filters and Parameters: Complexity of filtering and parameterization.
- Data Calculations: Custom calculations and formulas.
- Data Connections: Type of connection (live, extract)

03. User Inventory

- Username: Unique identifier.
- Role: Analyst, data engineer, business user, etc.
- Workbooks Accessed: Frequently used workbooks
- Data Sources Accessed: Frequently used data sources.
- Permissions: Access levels and privileges.

Migration Steps

Quadrant can guide you through the entire migration process, from initial assessment to full deployment and ongoing support. Our services include

- 1 Assessment and Planning**
 Data Assessment, Gap Analysis and Migration Planning
- 2 Data Migration and Integration**
 Data Ingestion, Data Transformation and Data Integration
- 3 Workbook and Dashboard Migration**
 Workbook Conversion, Visualization Creation, Customization and Enhancement
- 4 User Training and Adoption**
 User Training, Change Management and Adoption Support
- 5 Governance and Security**
 Data Governance, Security and Compliance and User Access Control.

Comparison of Spotfire and Power BI

Feature/Aspect	Spotfire	Power BI
Data Model	Known for the visualization and flexibility in data connections	Utilizes reusable semantic models for consistent data definitions
Data Access	Offers comprehensive data preparation tools for reshaping and cleaning data	Direct Lake mode allows real-time access without importing data
Collaboration	Requires third-party tools for collaboration	Integrated co-authoring and commenting features
Report Generation	Few customization options for dashboards	Automatic report generation based on selected datasets
Licensing & Cost	Flexible licensing options	More straightforward licensing model with options like Power BI Pro and Premium.

Key Migration Steps

- **Set Up Data Tables:** Define tables in Fabric's Lakehouse/Warehouse.
- **Transfer Queries:** Copy Spotfire calculations and queries to a new Gen2Dataflow.
- **Map Queries:** Specify target tables in Fabric for each Spotfire query.
- **Build New Model:** Create a semantic model from the Lakehouse/Warehouse.
- **Organize Data:** Rename and format tables and columns for user-friendliness.
- **Add Model Features:** Implement measures and hierarchies using Tabular Editor.
- **Reconnect Reports:** Link existing Spotfire reports to the new Fabric model

REST API Utilization

Microsoft Fabric provides a comprehensive set of REST APIs that allow users to automate interactions with data pipelines, lakehouses, and other resources

Data Connections

Spotfire REST API: Use this API to list and manage data connections within Spotfire. You can fetch details about the data sources used in various workbooks.

Endpoints:

- `GET /api/{version}/sites/{siteId}/datasources:` Lists all data sources for a site.
- `GET /api/{version}/sites/{siteId}/workbooks/{workbookId}/connections:` Lists connections for a specific workbook.

Workbooks and Sheets Metadata

Spotfire REST API: It allows you to query workbook and views (sheets) information, helping you understand the organization and structure of Spotfire projects.

Endpoints:

- `GET /api/{version}/sites/{siteId}/workbooks:` Retrieves all workbooks for a site.
- `GET /api/{version}/sites/{siteId}/workbooks/{workbookId}/views:` Retrieves views (sheets) within a specific workbook

Visualization Information

- **SpotfireMetadata API:** This GraphQL-based API can be used to extract detailed information about the fields and types of visualizations used in dashboards.
- **Usage:** Write GraphQL queries to fetch metadata about the visualizations, including their types and settings.

Performance Metrics

- **SpotfireServer Admin API:** If you have admin rights, you might use this API together performance data about the server and its workloads.
- **Endpoints:**
GET/api/{version}/sites/{siteId}/workbooks/{workbookId}/performance: Retrieve performance metrics of a workbook (if available through custom admin endpoints or tools).

Real-Time Use Cases

- **Retail Demand Forecasting:** Use real-time data to optimize inventory and improve accuracy.
- **Financial Fraud Detection:** Enhance fraud detection with real-time analytics and machine learning.
- **Healthcare Monitoring:** Monitor patient health using integrated real-time insights.
- **Supply Chain Optimization:** Analyze IoT data to improve visibility and predict delays.
- **Marketing Performance:** Centralize campaign data for real-time strategy adjustments.

Centralized Benefits with Microsoft Fabric

Transform your data strategy with Fabric's unified, powerful analytics experience.

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