



Whitepaper

Choosing a business-driven data platform for bank management

Table of contents

Part one: The role of a modern business-driven data platform	04
How banks can replace classical data warehouse architecture to meet banking-specific needs with FSDM	05
Providing a holistic view of data from a bank-wide standard data model	05
Ensuring streamlined integration with a flexible platform architecture and a growing ecosystem of vendors	07
Replacing customization with built-in extension options	07
Reducing redundancies with a decoupled architecture	08
Enhancing transparency and auditability for all users	08
 Part two: How FSDM works specifically for bank data management	 09
Harmonizing fine-grained data through a standardized data model and data integration	10
Offering built-in UIs for data browsing to ensure transparency and enhance the business user experience	11
Providing built-in correction capabilities to correct data from source systems with errors	11
Supporting BCBS 239 compliance	12
Ensuring reporting flexibility	12
Enabling flexible, reusable KPI calculations	12
Strengthening data governance through an open platform and future-proof architecture	13
 Part three: Drive your business decisions with an industry-specific data management solution	 14

Introduction

Improving banking data management goes beyond the IT department—it's a business imperative. As banks navigate increasing costs, demands for data transparency, and regulatory scrutiny, their traditional data warehouses fall short. Banking leaders require greater data visibility, flexibility and accuracy to meet regulatory requirements and shape business decisions than their current solutions provide.

Only a business-driven platform can address these challenges. A modern solution can harmonize financial, regulatory, and risk data to help banks achieve operational resilience, regulatory compliance, and innovative growth based on trusted data across all assets and liabilities.

SAP Pioneer's Financial Services Data Management is one such solution. It offers a standardized, industry-specific approach to data management that streamlines data integration, improves governance, and reduces costs for banks.



This article explores [how SAP Pioneer transforms banking data management](#), replacing current systems with a scalable and future-proof platform.

Part one



The role of a modern business-driven data platform

The role of a modern
business-driven data
platform

A modern data management solution can address challenges in bank financial management, such as finance, risk, and regulatory reporting.

Unlike classical data warehouse architectures, modern platforms deliver a business-centric, integrated standard data model that standardizes and harmonizes data. This structure fosters agility, transparency, consistency and cost efficiency.

SAP Fioneer's Financial Services Data Management (FSDM) is one such platform that can replace traditional warehouse architectures and respond to banking-specific needs.

How banks can replace classical data warehouse architecture to meet banking-specific needs with FSDM

FSDM is a modern business-driven platform that focuses on data specifically for bank management. It combines industry tailored software with an out-of-the-box data model that acts as a single-source-of-truth data solution for finance, risk and regulatory reporting.

This combination helps banks lower their run the bank (RTB) and change the bank (CTB) costs while improving data quality and transparency across the entire bank organization.

Here are the key aspects that set FSDM apart from traditional homegrown legacy data models and warehouse architectures:

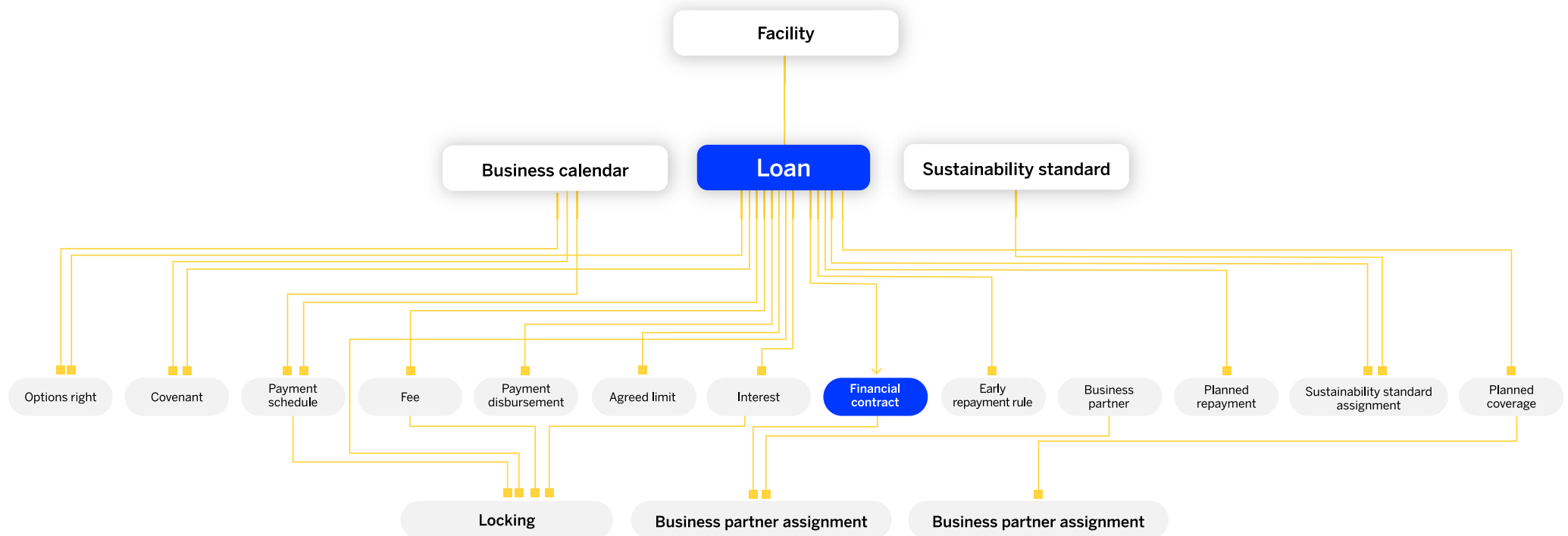
01 Providing a holistic view of data from a bank-wide standard data model

Unlike traditional architectures based on generic data warehouse solutions and data models built in house, FSDM is designed to meet the complex needs of bank management functions. It eliminates the need for banks to design their own data models from scratch, ensuring data consistency over time and faster transformation and adaptation to new business requirements.

How does FSDM do this? It centralizes and integrates data from various operational banking systems, providing a holistic view of financial assets, liabilities and key performance indicators (KPIs) for accounting, risk and regulatory reporting.

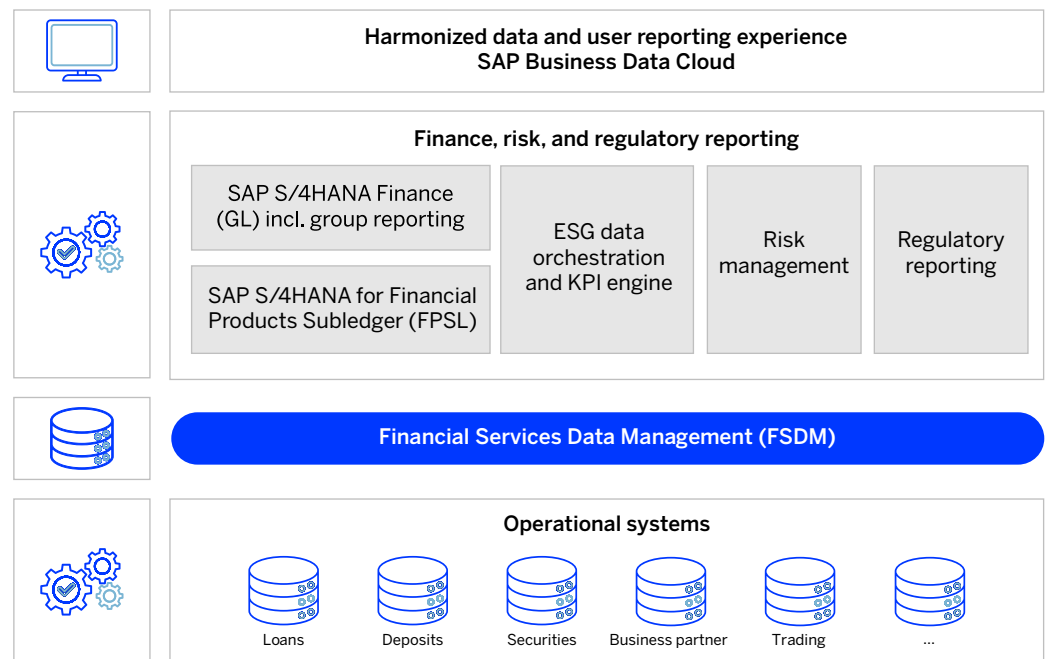
By harmonizing industry-specific data, FSDM ensures a single source of truth, supporting cross-application reporting and analytics across these critical functions.

FSDM's holistic view of assets, liabilities and KPIs for accounting, risk and regulatory reporting



02 Ensuring streamlined integration with a flexible platform architecture and a growing ecosystem of vendors

FSDM's modular solution enables banks to integrate with industry-standard analytical solutions, reducing complexity and lowering implementation costs. Ready-to-use integration with popular risk and regulatory reporting software reduces the time and effort spent on manual, custom set ups and ongoing maintenance. This speeds up implementation while enabling cost efficiency.



With FSDM, banks can ensure flexibility while maintaining a high standard of interoperability.

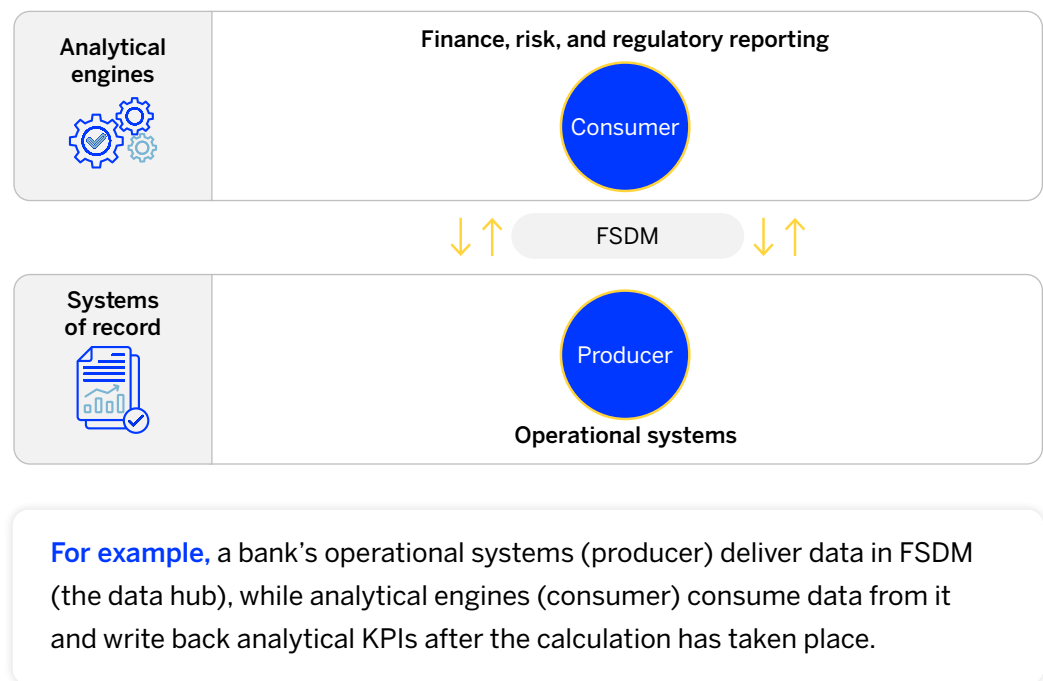
03 Replacing customization with built-in extension options

Instead of resource-intensive homegrown legacy solutions that are difficult to adapt, FSDM offers a standardized data model and interfaces. This reduces the need for customization while allowing for tailored extensions, when necessary, without re-inventing the wheel.

FSDM's flexibility also helps banks reduce the costs associated with customizing in-house solutions to keep up with regular software updates and regulatory changes. FSDM delivers software updates regularly, which includes new data model content to support upcoming new accounting, risk or regulatory requirements.

04 Reducing redundancies with a decoupled architecture

FSDM acts as a middle layer, decoupling the operational systems from the analytical engines, like those used for finance, risk, regulatory, and environmental, social, and governance (ESG) reporting. Instead of each system needing to understand the complexities of several operational systems or data warehouses, they only need to know how to interact with FSDM's data model and consume the harmonized data from there.



FSDM also simplifies calculations by creating a single source for KPIs. This follows a “compute-once-and-reuse” approach, where calculations are performed once and reused across analytical systems, reducing redundancy.

05 Enhancing transparency and auditability for all users

While a standardized data management layer like FSDM helps achieve the separation of operational banking systems and analytical systems, it also makes a modern platform easy to use for data consumers and producers alike. It achieves this by decoupling the dependency between operational systems and analytical engines from a data production and consumption point of view.

In this way, FSDM provides greater transparency than legacy systems and homegrown architectures. Banks will have easy access to trace the origin and transformation of data across its various analytical tools and reporting platforms. Enabling end-to-end visibility with full versioning of the data and access to granular product data also facilitates audits.

Part two



How FSDM works specifically for bank data management

How FSDM works
specifically for bank
data management

SAP Pioneer's FSDM provides several data management capabilities designed for banks.

01 Harmonizing fine-grained data through a standardized data model and data integration

FSDM helps banks organize and standardize the data needed for finance, risk, and regulatory reporting. It ensures data is clear, well-structured, and accessible across analytical applications. With a standard data model, data remains consistent and is stored only once, no matter where it was originally processed in the bank's operational source systems.

How does FSDM achieve this?

At its core is the Conceptual Data Model (CDM)—a pre-defined entity relationship data model for bank management, providing a view of fine-grained data that is focused on business semantics.

The CDM shows users every detail, such as how data entities are connected via relationships, and which attributes each entity offers. For example, users can see all metadata, including:

- Entities (e.g., loans, accounts, financial instruments)
- Attributes (e.g., interest rate, customer ID, Contract ID)
- Dependencies (e.g., relationships between accounts and customers)
- Code lists (e.g., standardized values for accounting categories)

The CDM model is transferred into a Physical Data Model (PDM). The PDM shows how the data is stored in the database and how it maps from the conceptual model, offering a technical perspective that complements the business view.

Together, these two models (conceptual and physical) ensure that business users can take ownership and work closely with the IT department, which operates the data solution. By providing a common data language for business and IT users, these models bridge the gap between business analysis, technical deployment, and operations. This creates a harmonized data model with greater transparency, allowing banks to have a full view of previous data versions and changes at any point in time. As a result, compliance reporting is easier, and auditability ensured.

While FSDM provides a pre-built, standardized data model, banks can extend it to meet their specific needs, such as adding new entities, data fields or relationships in the data model. This flexibility ensures the data platform works for a wide range of scenarios without sacrificing its core structure.

02 Offering built-in UIs for data browsing to ensure transparency and enhance the business user experience

FSDM has built-in user interfaces (UIs), which enable finance, risk and regulatory reporting business users to browse both the CDM and PDM data models and search for data stored there.

With FSDM, banks have a clear view of the data's lifecycle, from the first version of its origin in the source systems through to its final status (i.e., after a financial contract is no longer active). This transparency allows users to trace all data changes and understand how the data has been transformed and used over time.

For example, FSDM's Logs UI tracks every stage of the technical data loading process. It provides a detailed audit trail of the data loading processes for all operational systems delivering data into FSDM.

These built-in UIs provide banks with a clear and intuitive way to interact with the data, fostering transparency and improving their overall experience.

03 Providing built-in correction capabilities to correct data from source systems with errors

Once banks identify records requiring correction, FSDM can help them prepare a correction file with the rectified data and upload the file to update the central data repository. This feature offers a direct way to quickly fix identified data errors. Alternatively, the data can be corrected in the operational system and sent again to FSDM, where the new version of the data is then stored, including the information of what was corrected, by whom and when.

As part of SAP Pioneer's Bank Management solution, a customer can also introduce data quality validations, which support an iterative approach to data improvement. It enables users to continuously improve the quality of data by refining data quality rules and integrating more validation checks to identify potential erroneous data to be corrected in the originating system.

04 Supporting BCBS 239 compliance

The Basel Committee on Banking Supervision's standard number 239 (BCBS 239) aims to strengthen banks' risk data aggregation and reporting capabilities. It has several core principles covering governance, data architecture, and IT infrastructure. FSDM supports these requirements by providing a standardized data management platform that helps financial institutions aggregate and report risk data across lines of business.

The SAP Pioneer Bank Management platform will deliver full data lineage capabilities across end-to-end (E2E) data integration scenarios. FSDM's standardized interfaces lay the groundwork for tracking data sources, mappings and transformations—an essential component of BCBS 239 compliance. Future enhancements of the bank management platform will further strengthen transparency and auditability across finance, risk and regulatory reporting data management.

Understanding the data's source and how it has been transformed is **crucial for BCBS 239 compliance**.

05 Ensuring reporting flexibility

FSDM can store, provide, and manage data for analytical scenarios, like finance, risk and regulatory reporting or ad-hoc reporting. Bank analysts and leaders can extract and analyze data on demand from FSDM, without relying on IT teams. This self-service capability enables faster responses to business queries or regulatory inquiries by giving users direct access to fine granular data.

06 Enabling flexible, reusable KPI calculations

By integrating with accounting, risk and regulatory reporting calculation engines, FSDM can store calculation results as part of the data model for reuse in other reporting scenarios or ad-hoc analysis.

For example, FSDM can store KPIs, like financial positions, cash flows, credit risk metrics or compliance figures. Banks can then reuse these KPIs across different scenarios, whether for risk or broader business management.

This consistent standardized data model behind FSDM facilitates more efficient and consistent reporting while avoiding redundant calculations, saving banks' time and resources.

07 Strengthening data governance through an open platform and future-proof architecture

FSDM helps to strengthen the governance across many co-existing lines of business and disparate operational systems, such as retail banking, corporate banking, capital markets, and the central finance, risk and regulatory reporting management.

Since each line of business comes with its own controls and is responsible for its own data and systems, incompatibility and inconsistencies in bank-wide reportings are common. FSDM's open platform architecture allows for easy integration from operational systems into FSDM and analytical applications to consume data from FSDM. This means banks can benefit from using the pre-defined integration of FSDM with their existing SAP and SAP Pioneer solutions, or with third-party risk and regulatory reporting systems. This openness creates a flexible and future-proof IT landscape, enabling banks to choose best-of-breed solutions without having to worry about the complexity of integration. Banks can work with their preferred partners in risk management and regulatory reporting and establish the needed data integration with those vendors seamlessly.

Open architecture also ensures that all lines of business adhere to the same business semantics and understanding of the value of a central harmonized data model.

FSDM is also future proof, adapting to evolving regulatory and business needs. The FSDM solution is continuously enhanced with new capabilities and data model enhancements to support upcoming risk and regulatory requirements. FSDM customers benefit from requirements raised by other customers and partners.

In the future, this can help banks to prepare for topics like ESG, the Integrated Reporting Framework (IReF), and the Banks' Integrated Reporting Dictionary (BIRD) reporting requirements. FSDM also enables continuous innovation through the regular delivery of software updates, which extends the data model, enabling expansion of finance, risk and regulatory reporting scenarios to cater for future changes.

Part three



Drive your business decisions with an industry-specific data management solution

Drive your business decisions with an industry-specific data management solution

Banks looking to modernize their data management can move beyond fragmented legacy systems and toward an integrated, business-driven platform.

FSDM provides a standardized yet flexible solution, ensuring data harmonization, transparency, and efficiency while reducing operational complexities and costs.

By centralizing data management, supporting regulatory compliance, and enabling advanced analytics, FSDM equips banks with the tools to drive strategic decision-making and innovation. As the financial sector evolves—facing new compliance requirements, ESG reporting mandates, and technological shifts—adopting a future-proof data platform will be critical. For banks aiming to stay ahead, FSDM represents a key enabler of operational resilience and long-term success.



SAP Fioneer 

To find out how SAP Fioneer's Financial Services Data Management (FSDM) solution can help banks transform their data management landscape contact your account representative or [visit our website](#).





SAP Pioneer

About Pioneer

SAP Pioneer provides software solutions for banks and insurance companies: built on rock-solid technology and bold creativity.

In 2021, a group of financial services experts at SAP realized their clients needed a faster, more flexible partner that could move at their pace, adapting to the fast-changing landscape. Joining forces with entrepreneurial investor DEDIQ, SAP Pioneer was born – a start-up with the weight of a global software company behind it.

[Get in touch](#)

sapfioneer.com

contact@sapfioneer.com

© SAP Pioneer 2025 All rights reserved. No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP Pioneer. The information contained herein may be changed without prior notice. Some software products marketed by SAP Pioneer and its distributors contain proprietary software components of other software vendors. National product specifications may vary. These materials are provided by SAP Pioneer for informational purposes only, without representation of warranty of any kind, and SAP Pioneer shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Pioneer products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty. In particular, SAP Pioneer have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality herein. This document, or any related presentation, and SAP Pioneer's strategy and possible future developments, products, and/or platforms, directions, and functionality are all subject to change and may be changed by SAP Pioneer at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

