

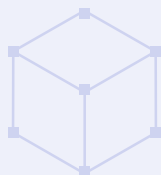


INDUSTRY

Banking

PROFILE

This bank is a diversified financial services company headquartered in the midwestern United States. As of June 30, 2021, the bank had over \$200 billion in assets and operated over a thousand full-service banking centers and over two thousand 2,369 branded ATMs across ten states.



“Spending more time on critical decisions versus finding data opens a lot of doors for us. From a data culture perspective, the Denodo Platform has enabled a kind of lights-out win. A logical approach enables not only speed but also trust in the data.”

– VP and director of IT Data Governance

Large Bank Leverages the Denodo Platform as the Foundation for a Shift to a Distributed Data Mesh Configuration

Every day, this bank serves customers across 12 U.S. states with reliable, state-of-the-art banking services. Increasingly, this has required the bank to seamlessly reach customers and potential customers across multiple channels including in-person, ATM, mobile, and online channels, with digital services running 24/7 under strict levels of speed, availability, and accuracy.

Business Need

Recently, the bank saw opportunities to deliver better, more personalized experiences to its customers, but its data infrastructure was not able to support that vision. It was a traditional infrastructure with centralized ownership and governance, built around a central pipeline paradigm, and the infrastructure's components were highly interdependent, creating additional rigidity and inhibiting agility. Additionally, data was created almost as an afterthought, with not enough foresight into how the data would actually be used and who would consume it. With this infrastructure, business analysts were spending an average of 70% of their time finding data and only 30% of their time actually using it. Perhaps even more significantly, only 10% of the data that analysts took so long to find was actually being used.

The bank was also dedicating an unsustainable amount of time and resources to maintaining compliance with a growing number of regulations, so it needed a way to streamline this ongoing effort with a more efficient use of data.

To address these needs, the bank planned a digital transformation that included a re-design of the entire data infrastructure. The bank wanted to move from a traditional, centralized data infrastructure to a modern, decentralized, data mesh infrastructure. Additionally, the bank needed the new infrastructure to support:

1. Real-time data delivery across multiple, disparate systems, to support distributed data domains in a data mesh configuration, as well as the delivery of data as a product
2. Improved data governance and regulatory compliance
3. Enterprise data management capabilities, including data marketplaces and data catalogs
4. More effective domain-based ownership of the available data, from creators and aggregators to consumers
5. Zero downtime during all migrations and modernization efforts

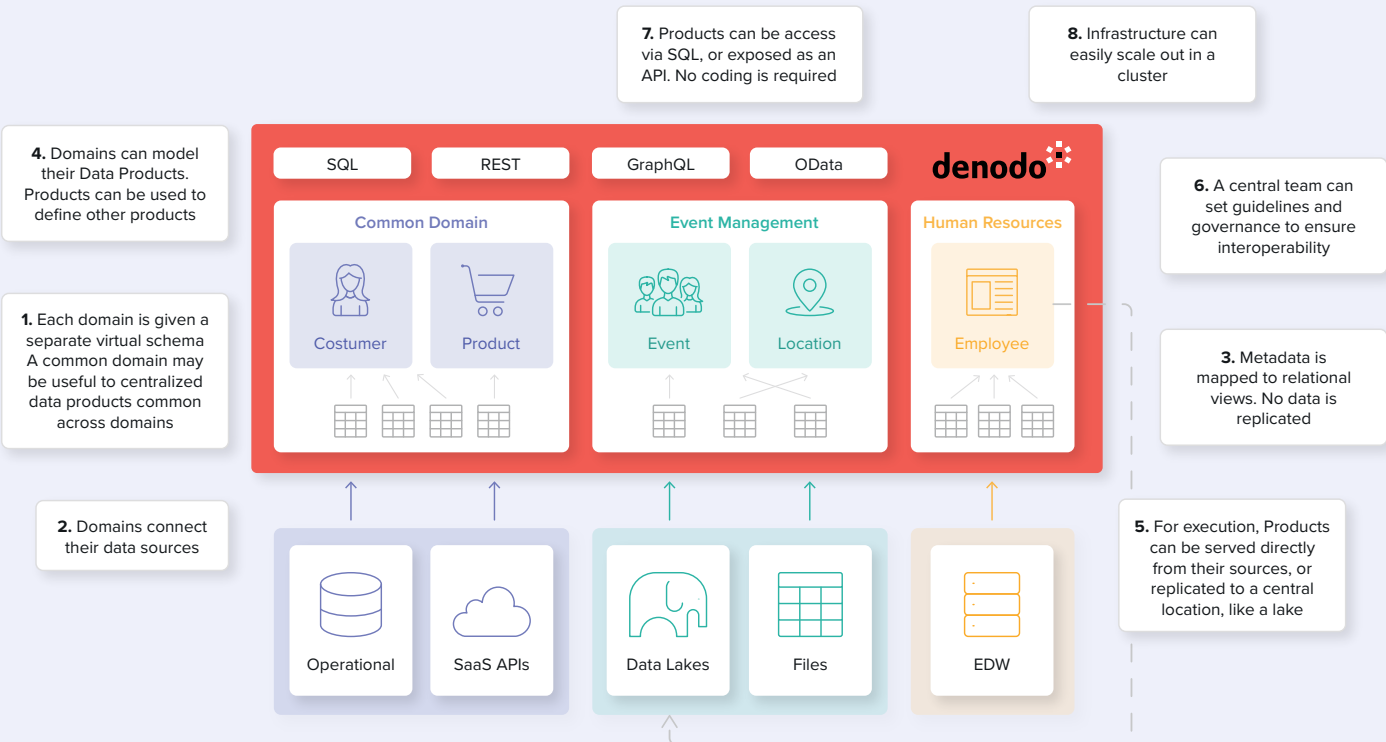
The Solution

The bank leveraged the Denodo Platform as a foundational element for this profound transformation. The Denodo Platform is a modern platform for data integration, management, and delivery, and unlike legacy solutions, which rely on the physical replication of data, the Denodo Platform uses a logical first approach, powered by data virtualization, to enable real-time views of data, from highly diverse source systems, including structured or unstructured sources, and on-premises or cloud sources.

With the Denodo Platform, the bank established a logical data fabric across the bank's existing data infrastructure, which enables real-time access to any data source in the organization, without the data consumer needing to know where the source system is located. This also enabled employees to maintain access to data even when data sources were being migrated and/or replaced as part of the overall modernization effort.

With the flexibility that the Denodo Platform provided, the bank was able to smoothly transition from a traditional, consolidated architecture to a distributed data mesh architecture. Because the logical data fabric abstracts data consumers from the complexities of data access, even when the data sources are being migrated, the bank was able to perform this profound transition without impacting daily operations and business. Data domains within the organization began to take ownership over specialized aspects of data delivery and began to deliver data as products, to meet the specific needs of different departments and stakeholders.

Logical data fabric contains no copies of actual data; however it does contain the metadata required to access the various sources. In this way, the bank was able to seamlessly establish robust data governance across the entire existing data infrastructure, from a single point of control. This architecture also greatly facilitated the bank's regulatory compliance initiatives, as it enabled seamless access to numerous disparate data sources.









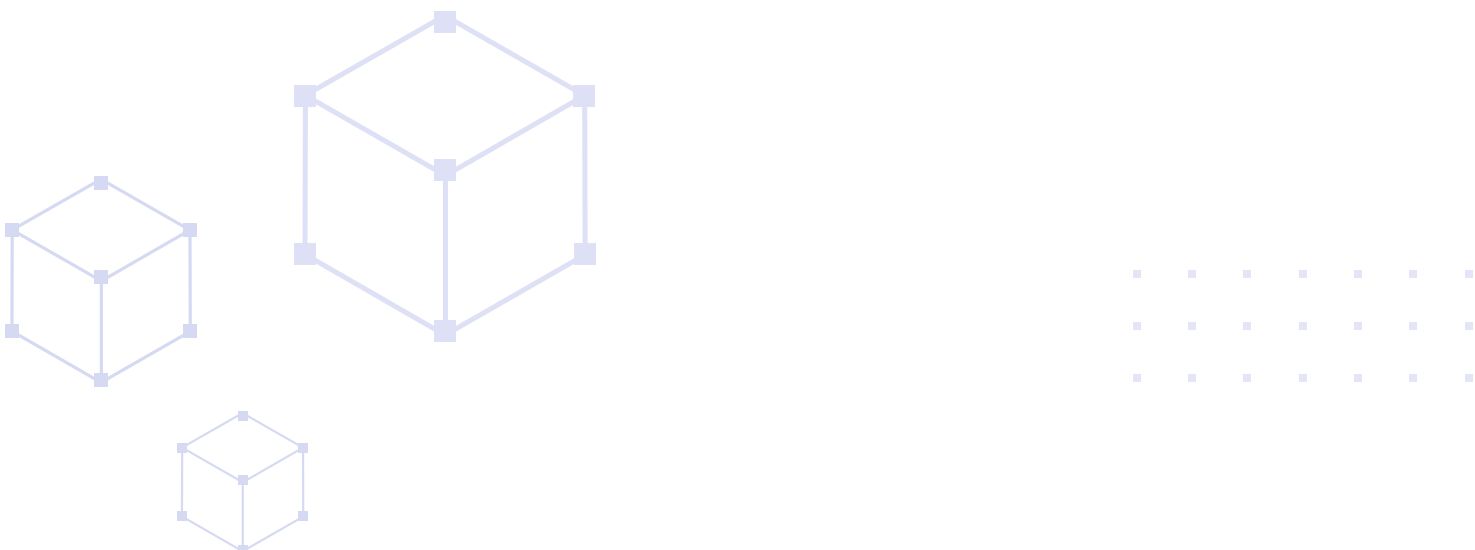
Benefits

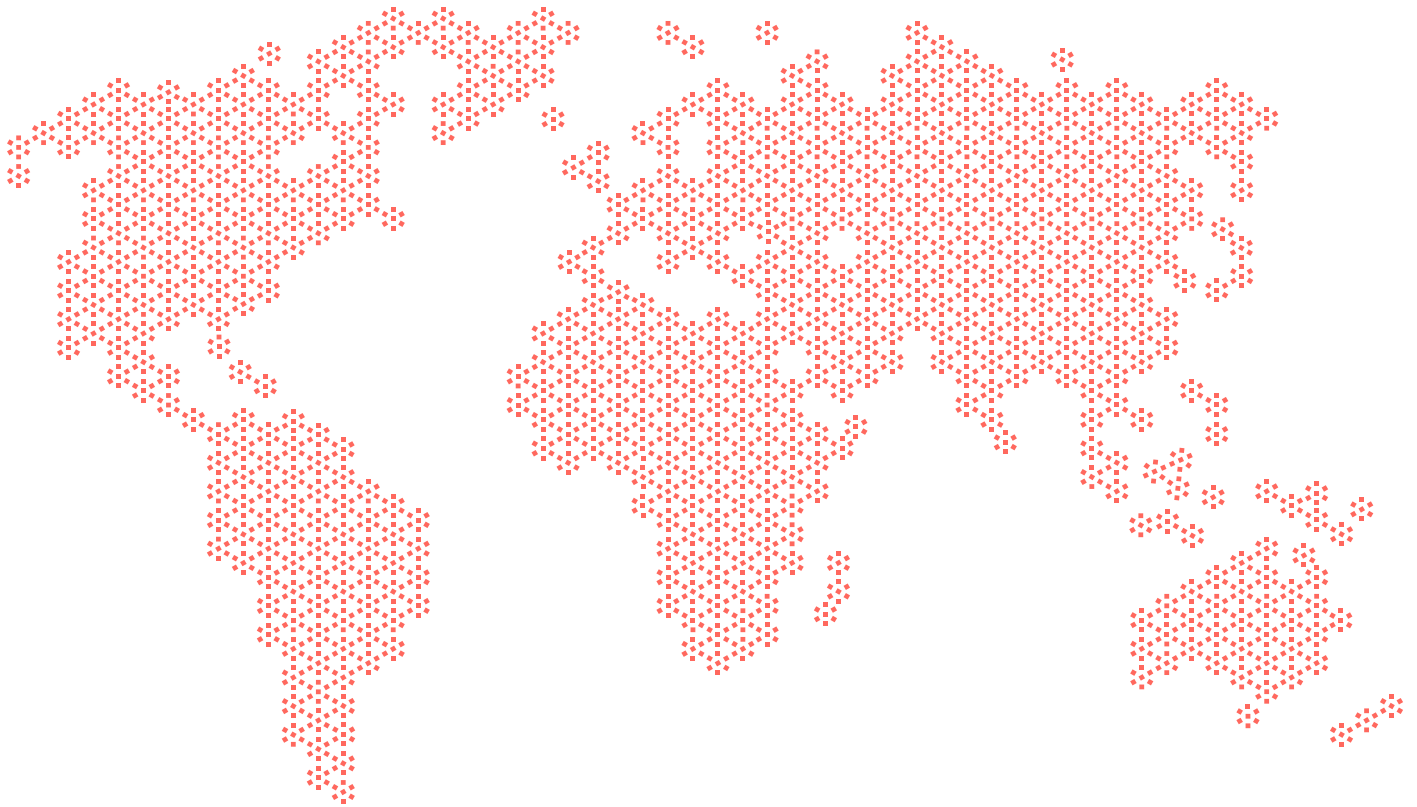
The Denodo Platform enabled the bank to meet or exceed all of the company's expectations for a new data-mesh-based infrastructure that could support the bank's vision for a digital transformation, including robust, domain-driven data marketplaces with data catalog capabilities. The bank leveraged the Denodo Platform to build rich customer profiles using data from multiple platforms and dozens of data source systems, without having to physically move any data. This enabled a holistic view of customers that could be easily consumed across the web, email automation tools, and a mobile application.

"Spending more time on critical decisions versus finding data opens a lot of doors for us," says the bank's VP and director of IT Data Governance. "From a data culture perspective, the Denodo Platform has enabled a kind of lights-out win. A logical approach enables not only speed but also trust in the data."

By implementing the Denodo Platform, the bank was able to:

-  Smoothly transition from a traditional, centralized infrastructure to a modern data mesh infrastructure
-  Cut the time that analysts were using to find data in half
-  Reduce data processing cycle time by 90%, accelerating time-to-insight for all data stakeholders and streamlining regulatory compliance efforts
-  Dramatically decrease extract, transform and load (ETL) service management efforts, since data no longer has to be physically moved
-  Remove the risk normally associated with enterprise deployments and modernization activities, through the data-abstraction capabilities of the data virtualization layer
-  Standardize controls and processes to create reusable data domains in a data mesh configuration, while implementing robust end-to-end data governance capabilities





Denodo Technologies is the leader in data virtualization providing agile, high performance data integration, data abstraction, and real-time data services across the broadest range of enterprise, cloud, big data, and unstructured data sources at half the cost of traditional approaches. Denodo's customers across every major industry have gained significant business agility and ROI.

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