



How a Central Digital Team Accelerated Data Delivery by 4x Across Partner Agencies Using Denodo

Overview

In a developed APAC nation with a large and distributed public sector, a central digital agency supporting over 25,000 public servants needed a more unified and scalable way to manage operational data. Each agency operated with its own tools, timelines, and data access processes, leading to duplicated effort, slow delivery, and missed opportunities to improve public services.

The agency adopted the Denodo Platform to unify access to more than 1,500 data sources, reducing the time needed to onboard systems and deliver insights from months to weeks and in some cases, hours. This shift enabled faster decision-making, more consistent policy analysis, and improved collaboration across government departments. Together, these efforts have enabled faster response in public health and more informed policymaking, directly impacting service outcomes.

Challenges

Despite providing centralized digital services to more than a dozen public sector agencies, the digital team struggled with inconsistent and siloed access to data. They were tasked with delivering a platform that other teams could use to build their own reporting and analysis capabilities, but were hampered by:

- Long lead times for onboarding systems and accessing operational data.
- Multiple teams accessing the same data independently, without coordination.
- Significant duplication of effort:
 - For example, common sources like HR data and workforce grants were being pulled separately by different agencies.
 - Reporting was treated the same as raw data access, causing confusion and inefficiency.
- Limited flexibility for ad-hoc analysis or exploration of issues.
- A growing need to provide not just a platform, but also architectural guidance, governance, and reusable artifacts that agencies could rely on to build their own solutions.

Solution

The team deployed Denodo's logical data management platform to establish a governed access layer across legacy technologies like SQL Server, Oracle, Excel, SharePoint, and Access, as well as modern SaaS systems and APIs. This architecture provided secure, unified semantics, and policy-aligned access to operational data, without replicating datasets or building point-to-point integrations, and without disrupting existing infrastructure.

To expand usage and support a broader set of users, the team built a user-friendly data marketplace that allowed agencies to discover, reuse, and build on shared data assets. Designed for autonomy and speed, the marketplace enabled analysts and digital teams to work independently without relying on backend coordination and deep technical knowledge, while maintaining trust and alignment through consistent architecture and embedded governance.

Two early use cases demonstrated the platform's potential:

■ Cross-Agency Policy Analysis

To support data-informed decision-making across social services, law enforcement, and public health, the team blended millions of records from diverse systems, including transport logs, police incident data, housing records, and clinical summaries. With Denodo, they geo-coded and integrated this data to generate visual insights by region, revealing patterns and correlations that had previously been buried in silos.

- The prototype was delivered in days, not months
- Visual dashboards in Power BI included heat maps and geospatial overlays
- All analysis was performed using summarized data, ensuring individual privacy

■ Emergency Department Monitoring

Following the rollout of a new clinical system, there was an urgent need for near real-time insights on patient flows, bed occupancy, triage categories, and waiting times. Within four weeks, the team built a live dashboard that updates every 30 seconds, supported by Denodo's caching and intelligent data delivery layer, ensuring performance without burdening clinical systems.

Benefits

- **Eliminated duplication of effort across departments and teams:** By providing governed access through a shared platform, Denodo helped eliminate redundant data pulls, conflicting reporting, and repeated integration work across departments.
- **Accelerated data access:** Connected to clinical data in just 4 hours, enabling faster onboarding and reducing time-to-insight from months to weeks.
- **Faster delivery of cross-agency insights:** Complex dashboards and policy analysis are now delivered in days, enabling more responsive and informed decisions.
- **Enabled self-service and reuse:** By building on trusted, reusable data assets within a governed architecture, teams can develop solutions faster and more independently, reducing rework and improving consistency.
- **Growing adoption across agencies:** With many projects already in production and many more in active development, the platform is becoming the standard for secure, scalable data access and delivery across departments.



Denodo is a leader in data management. The award-winning Denodo Platform is the leading logical data management platform for delivering data in the language of business, at the speed of business, for all data-related initiatives across the organization. Realizing more than 400% ROI and millions of dollars in benefits, Denodo's customers across enterprises in 30+ industries all over the world have received payback in less than six months.