

# Simple Data Mesh Architecture

*Delivering advanced analytics at scale with cloud-native, serverless infrastructure*

## Overview

DDC's Simple Data Mesh Architecture (SDMA) is a cloud-native, serverless analytics platform that delivers advanced analytics at scale atop a modern data lake architecture. Leveraging design patterns employed by commercial firms that employ cloud-native, serverless infrastructures, the SDMA enables rapid provisioning of dedicated data lab environments accessible in under 30 minutes and usable from a few hours to multiple years. Operating within data curation zones featuring embedded governance, tenant teams ensure that every data asset is trusted and actionable. Through SDMA, teams gain access to a full suite of advanced analytics and AI/ML capabilities, driving insights and enhancing decision-making across enterprises.

## Our Approach

Connecting intelligence insights with decision makers at the speed of relevance in an agile, scalable manner is essential to achieve mission goals. SDMA is designed with a decoupled architecture, separating compute from storage to enable independent scaling and rapid provisioning. This ensures that data remains both accessible and secure, regardless of processing demands.

Through integrated data curation zones, SDMA automates the entire curation process, leveraging well-defined zones and trust scoring to maintain high data quality and compliance. SDMA's on-demand flexibility allows users to launch a dedicated data lab in <30 minutes, supporting both short-term proofs of concept and long-term production analytics.

## Features

- **Rapid Tenant Provisioning**  
Dedicated data lab environment deployment in less than 30 minutes
- **Decoupled Architecture**  
Independent scaling of compute and storage to support petabyte-scale data
- **Automated Data Curation**  
End-to-end processes for data ingestion, cataloging, trust scoring, and QA
- **Advanced Analytics Integration**  
Native support for machine learning, big data processing, and visualization
- **Turnkey Security & Compliance**  
Built-in, ATO-ready framework aligned with DISA and DoD IL4/5/6 standards

## Key Benefits

- Expedited Time-to-Insight
- Operational Agility
- Cost Optimization
- Enhanced Data Quality & Trust
- Improved Mission Effectiveness
- Streamlined Compliance

## Heritage-Inspired Accountability. Mission-Driven Impact.

As a wholly owned instrumentality of the Navajo Nation, DDC operates with a purpose beyond profit. Unlike traditional firms beholden to Wall Street or equity partners, our commitment is to the sustainable prosperity of the Navajo Nation and its People. Our Heritage-Inspired Accountability Model allows us to take a different approach—one that prioritizes long-term value, trust, and innovation.

Through our Solution Accelerator Model, we bring proven capabilities that empower delivery teams and accelerate digital transformation for our customers. By investing in open, scalable solutions and fostering true partnership, we don't merely deliver services—we build lasting relationships grounded in trust, integrity, and mission success.

## Corporate Snapshot

- Navajo Nation tribally owned family of companies
- SBA certified 8(a) and Small Disadv. Businesses
- 700+ employees
- 130+ CONUS and OCONUS operating locations
- Federal, state, and tribal government markets
- 20-year history of proven performance

## Innovation in Acquisition

- ✓ **Non-protestable awards**
- ✓ **Streamlined procurement process**
- ✓ **Increased contract capacity**
- ✓ **SDB contracting credit**
- ✓ **Advanced mission priorities**

## Customer Success Story — *DISA OCDO Data Lab*

DISA's Office of the Chief Data Officer (OCDO) leveraged DDC's SDMA solution to power advanced analytics at scale across its ecosystem. DDC has enabled tenant teams to launch dedicated data labs in under 30 minutes and use it for an unlimited amount of time—for two hours, two weeks, two months, or two years. With embedded automated data governance, this cloud-native solution has delivered a 70% reduction in ATO preparation time, 50% lower operational costs, and seamless scalability for petabyte-scale analytics. This flexibility and speed empower DISA teams to quickly harness actionable insights and significantly amplify the impact of organization-wide analytics.

## Contact Us

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