

# DataOS<sup>®</sup> Solution: Patient360

## Achieve a 360-Degree View of Patients

DataOS Patient360 provides a platform for healthcare organizations to achieve a comprehensive view of patients, enabling them to work with various data sets and leverage agile methodologies. Its composable architecture allows for the creation of dynamic data products\* around core data sets that underpin the patient experience.

*\*Data products are self-contained data assets that include metadata, governance, quality, metrics, and lineage information specific to a data set. Data products enable an agile and high-quality patient 360° view while simplifying components key to delivering better care and service.*



DataOS<sup>®</sup> comes equipped with Patient360 to help healthcare organizations:

- Provide value-based care
- Improve patient experience and engagement
- Simplify the integration of patient scheduling
- Execute a digital transformation strategy
- Reduce costs

Patient360 is a secure, validated, and integrated solution with all the information necessary to visualize and engage with a patient's entire healthcare journey.

## DataOS: The World's First Data Operating System

Patient360 is powered by DataOS, a fully programmable data operating system built with open standards to solve end-to-end data management problems. DataOS layers over the existing data stack, unifying data, people, and technology through an outcome-based approach that uncovers value from data exponentially faster. It provides an API-first, extensible, and composable architecture that helps healthcare organizations easily access, secure, govern, manage, and activate all their data. This includes heterogeneous data spread across multiple systems hosted across multi or hybrid cloud environments.

### Data as a product

Data products provide composable views into critical data sets that can quickly evolve with your organization.

### Native governance and compliance

Native ABAC governance and automated logging help keep sensitive data like PII safe and accessible.

### Outcome-based approach

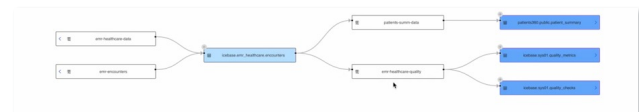
Low-code data access enables quick business-driven outcomes while evading the complex underlying data ecosystem.

### Data quality assurance

Tools for automated data quality, lineage, and abstraction help ensure a complete and trustworthy patient view.

## Ensure Data Quality

Built-in tools facilitate the inspection, monitoring, and verification of data quality and lineage. Users can view the data schema, explore data quality, and understand data lineage in one easy-to-use interface. Historical queries and a clear schema help data consumers easily query data without the hassles typically associated with unfamiliar data sets. Verification of all data parameters can be performed through data quality checks. Lineage is displayed in a diagram that shows how a data source came to be and any data transformations it has undergone.



Yogesh Khargode | Gold | Type: Iceberg | Usage - 6th pctlle | 44 Queries | 45 Columns | 514 rows  
#Gold #DataOS Offline Sales #DataOS Profile #DataOS Quality #DataOS Risk

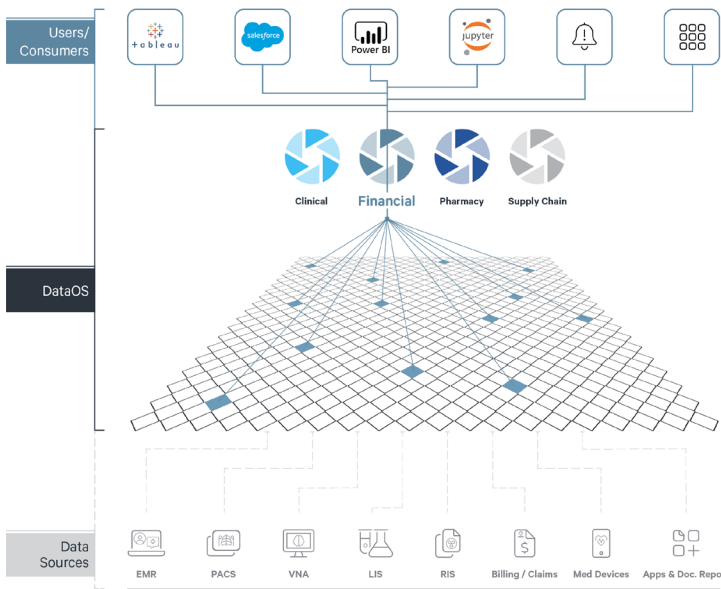
Schema Activity Feeds & Tasks 43 Queries **Profiler & Data Quality** Lineage Custom Properties

Summary Data Quality

Search by the name...

Name	Data Type	Null %	Unique %	Distinct %	Value Count	Tests	Status
__metadata	map<string>	-	-	-	0	-	-
customer_id	long	-	8%	5%	514	3	2 0 1
order_id	string	-	20%	54%	514	3	2 0 1
order_line_number	long	13%	-	1%	447	-	-
order_sku_id	string	13%	91%	82%	447	-	-





## Build Data Products with DataOS Lens

Business users and IT teams can operationalize holistic patient data without having to worry about its underlying complexity. Teams can build, share, or reuse composable data products while DataOS Lens, a data modeling layer, abstracts and automates the underlying data sources.

For example, data scientists may use a clinical data product containing data from an EMR system to model cost effective strategies for preventing readmissions. Business teams may use the same data product to trigger proactive patient outreach. Data products can also be leveraged by existing tools and analytical frameworks, including business and technical tools, or used to set up alerts in DataOS. Its modeling layer maintains shared definitions across the entire organization, allowing for holistic, cross-functional collaboration, less redundancy, and more cohesion.

## Patient Insights with Security

Patient data can be confidently accessed and analyzed while adhering to strict security regulations. Each data product is a governed object reinforced by native ABAC governance based on user-applied data and access policies.

Patient Name	Admit Date	Re-Admit Encounter ID	Diagnosis Description	Procedure Description	Re-Admit ID	Readmit Date	Readmit Diagnosis Description	Total Readmit Date	Total Re-Admit
2264e8d01714d	981020505044	1361461141462	cardiac dysrhythmia	pacemaker and defibrillator procedures	2139393	10/12/19	heart failure		19
821281860895	7880c2d60810a	7073d1e1997738	cardiac dysrhythmia	pacemaker and defibrillator procedures	21184288	2/12/19	heart failure		10

Elements are tagged, either manually or automatically, as PII- or PHI-sensitive data. The encryption of these data extends to all access points, including dashboards, Jupyter Notebooks, and third-party tools.

Name	Type	Description	Tags
__metadata	map[string]	No description	+ Tags
pt_id	int	No description	+ Tags
age_group	string	No description	+ Tags
zip_code	string	No description	+ Tags
gender	string	No description	+ Tags
race	string	No description	+ Tags
ethnicity	string	No description	+ Tags
last_name	string	No description	+ Tags PII Sensitive
first_name	string	No description	+ Tags PII Sensitive

## The Benefits of a Modern Patient 360

With DataOS Patient360, healthcare organizations can achieve a complete and accurate picture of patients to help reduce costs, support care coordination, and improve patient outcomes.

Current patient 360° offerings start by merging patient data. However, healthcare organizations recognize that not only siloed data, but also inaccurate data negatively impact costs and patient care. A 360-degree problem requires a 360-degree solution: DataOS Patient360 unifies data, creating cohesion between communications, alerts, and analyses of holistic patient data.



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The Modern Data Company  
306 Cambridge Ave  
Palo Alto, CA 94306

[TheModernDataCompany.com](https://www.themoderndatacompany.com)

[info@TMDC.io](mailto:info@TMDC.io)