



# Enterprise Data Hub: a scalable and robust data analytics platform on Azure for a large medical devices firm

## Customer Challenge

Client is a large US based medical devices firm. There were disjointed data silos due to various acquisitions over several years. The legacy architecture did not support blending and analyzing structured and unstructured data from various data sources. Scalability limitation caused performance issues with existing ETL jobs and reporting queries.

This left behind large amount of untapped intelligence, limiting the full benefit of client's investment in advanced analytics.

## Tiger Solution: Analytical Data Foundation

Tiger's Analytics Data Foundation solution hosted on Azure creates an Enterprise Data Hub as single source of truth.

Data unification into Azure Data Lake is powered by Azure Databricks' native change capture feature, while Azure Event Hubs is used for low latency telemetry data ingestion via Spark Stream. This scalable architecture provisions on-premise data and makes it ready for subsequent analytics, deploying ML models, dashboarding, and prescriptive action-driven reporting.

## Customer Benefits

Modernized data platform with on-demand scaling with automated provisioning, monitoring, and built-in fault tolerance. Analytics team can quickly design and implement complex ML models at scale on Azure ML, with advanced monitoring and reporting on Power BI.



25X faster query performance and delivery of business insights



90% improvement in SLAs for data for business users as well as for data scientists through Azure Databricks and Azure Data Lake Storage.



75% improvement in ETL congestion which reduced load on transactional systems and enabled near-real-time data for downstream systems.

### Contact Us:

✉ [partnership@tigeranalytics.com](mailto:partnership@tigeranalytics.com) 🌐 <https://tigeranalytics.com>  
☎ +1 408 508 4430

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