

Rethink your data analytics journey



Leverage powerful analytics, transactional and machine learning workloads in a hybrid data platform that combines the agility and flexibility of public cloud with the control of an on-premises data center.

Digital transformation is a business requirement for organizations, and effectively using data is a key factor that enables innovation and competitive differentiation. However, enabling visibility and control of data is critical. Chief data officers and data stewards face major challenges, such as:

How to harmonize data governance, security, management and control?

Security and management policies are difficult to implement across your different data stores, and moving data is not always possible. There are practical reasons like enormous data volumes, cost constraints or difficulty ensuring the latest version across multiple locations. There are often also compliance and regulatory constraints.

How to standardize the analytics processes?

It's extremely challenging to harmonize data analysis processes across the organization, no matter the location or type of data. Without a consistent view, the data science modeling capabilities and querying approaches have limited effectiveness and reusability.

How to leverage data stored in silos across the business?

Scaling-up and industrializing the use of data and insights across the organization can be impossible to achieve with the typical siloed data stores. Data-driven digital transformation requires a robust and responsive data architecture with strong governance, to not only maintain security but also to enable activities such as analytics, enterprise AI and IoT.

Overcoming these challenges requires a solution that enables the organization to effectively balance time to market, security, cost and performance.

Codex Datalake Engine

Atos Codex Datalake Engine simplifies the deployment of analytics services such as data engineering, data warehouse and machine learning. When 100% public cloud is not an option due to security or sovereignty reasons, the Codex Datalake Engine is the most cost-effective solution on the market to quickly upgrade legacy data platforms and start delivering data analytics or AI use cases.

Our unique partnership brings the power and potential of data analytics and machine learning (ML) to a variety of clients. Potential applications include streamlining a national job market, unifying digital IDs for millions of citizens, or optimizing data mining operations through advanced analytics.

Benefits



Time to market

- 100% tested and certified to work with CDP Private Cloud Base and Data Services
- All-in-one: Includes everything required to start in just a few weeks, with first class support and maintenance
- Enables you to start small and extend storage or compute resources as business demand grows



Security

- 100% tenant isolation with containerization, encryption and authentication
- Comply with the most stringent SLAs for mission-critical workloads (no more "noisy neighbors")
- Containerized approach for enhanced security and scalable, multi-tenant data service deployment



Reduced cost of ownership

- Up to 50% reduction in infrastructure cost, with better predictability to optimize private/public cloud budgets
- Cost optimization for all layers of the full stack solution — including network, server, software and support
- Best possible TCO for massive data ingestion



Flexibility

- Compatible with legacy applications
- Combine the high capacity of on-premises with cloud platforms
- Runs with any cloud platform



Openness

- 100% open source, open compute
- Open storage and integration
- Enables rapid innovation and protects against vendor lock-in



Multi-function

- Reduces the time and effort to deploy common application types
- Enables five new self-service experiences: flow and streaming, data engineering, data warehouse, operational database, machine learning
- Internal resources are rare, with Codex Datalake Engine you can rely on us for Data Engineers, Data Analysts, Data Scientists, Data Stewards tasks & competences

Powerful, scalable compute

BullSequana SA

With its dynamic reconfiguration capabilities, BullSequana SA server combines exceptional performance with a limited carbon footprint.

BullSequana SA rack servers are powered by third-generation AMD EPYC™ processors, providing a cost-effective balance between performance and virtualization. By offering up to 200 TB in a 2U form factor and best-in-class SAS/SATA and ultra-fast NVMe drives, they provide optimal performance for on-premises or hybrid data lake architectures. In addition, this outstanding density makes it possible to minimize the footprint and improve energy efficiency.

[Read the technical document](#)

Applications

- Legacy migration
- Datalake as a service
- Digital ID as a service
- Green IT

About Atos

Atos is a global leader in digital transformation with 109,000 employees and annual revenue of c. € 11 billion. European number one in cybersecurity, cloud and high performance computing, the Group provides tailored end-to-end solutions for all industries in 71 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea), listed on Euronext Paris and included in the CAC 40 ESG and Next 20 Paris Stock indexes.

The [purpose of Atos](#) is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

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Let's start a discussion together



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