spectra

by Fosfor

Supercharge Your DataOps

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Organizations are operating at an unprecedented pace today. Access to right information and analytics at the right time could offer them a competitive edge. To be the industry leader, organizations must have access to the right DataOps solution and data cloud platform, which will empower them with valuable analytics and insights to achieve greater efficiency in terms of cost, time-to-market, resource utilization, etc.

Today, the focus is on executing enterprise-wise DataOps at speed and at scale characterized by:

- How data is used by end-users, not only data ingestion and storage
- Support for better data discovery and usage, not only data extraction and loading
- An ecosystem of data products available across the enterprise, versus more limited data platforms
- A domain-oriented approach focused on the business needs of diverse and distributed teams
- Support for real-time data analytics, rather than analytics only on data at rest

How does Spectra create value?

Spectra is a comprehensive DataOps platform to build and manage complex, varied workloads on a low-code user interface with domain-specific features and delivers purpose-built cloud-native data transformation at scale.

Reduces overall execution time by 42%

Reduces typical batch processing time by over 80%

Reduces manual effort up to 90%

Provides consumption-ready data for data science workloads

Minimizes Total Cost of Ownership (TCO) with a future-proof tech architecture that optimizes data processing

Key features of Spectra

Data-as-a-product

Decentralized, domain-oriented teams building data pipelines and data products.

- **Independent lifecycles:**
  Teams can independently maintain and automatically version-control data products while ensuring strong governance, access management, and discovery of data across different domains and applications.
- **Discoverability:**
  It is easy to discover the right set of data for domain-oriented processing for the domain-oriented teams.
- **Metadata repository:**
  Spectra maintains metadata information of different data assets across their different applications and systems within an organization.

Domain data pipeline

Pre-built domain data pipelines specific to different business domains.

- **Self-served operations:**
  Any technical or non-technical specialized team can use the platform due to its easy-to-use and web-based interface, facilitating a smooth production-to-deployment journey.
- **Domain-specific operations:**
  In-built capabilities to enable domain specific processing pertaining to different business domains such as manufacturing, insurance, pharma, CPG, etc.
- **Streaming data processing:**
  The platform creates a batch and micro-batch data pipeline for real-time analytics, by integrating messaging queues and avoiding loss of messages during failovers.

Purposeful processing

Workloads configured for run engines can be centrally scheduled and monitored.

- **ETL stores:**
  Over 50 pre-built native connectors for cloud and on-premises sources with readily available data processing functions, including sort, look-up, join, transform, grouping, etc.
- **Quality stores:**
  Exploratory data analysis capabilities, including data profiling, quality dashboard, and feature pipeline.
- **Operational stores**
  Transformed and processed data for third-party applications for reporting, AI/ML, ad-hoc analysis, and more.

Hybrid platform

Making cloud-native integration and transformations possible.

- **Hybrid implementation:**
  The platform can be deployed on cloud as well as on-premise as per the organization's requirements and preferences.
- **Any cloud:**
  The platform is cloud-agnostic and can be deployed on any cloud such as AWS, MS Azure, GCP, etc.

High performant

Performance excellence with customization features:

- **Custom reusable components:**
  Business logic written in an external script (Python, Java, etc.) can be integrated into the data pipeline.
- **Dynamic execution:**
  The platform allows implementation of dynamic execution with optimized ELpT pipelines and a purpose-built dynamic execution framework.

Governance

Integration with enterprise governance and security measures.

- **Lineage:**
  Data lineage is maintained from source to target with related transformation information across applications and processes.
- **Authentication and authorization:**
  The platform offers persona-based access to effectively manage and sync users, groups, roles, and actions from the enterprise LDAP or AD.
- **FinOps and SecOps:**
  The platform is equipped with dashboards with enhanced views to perform checks on users, their activities, and operations on the platform, with user management, audit, and integrations with Git to ensure version control.

Key Partnership

snowflake | Snowflake Innovation Partner, Snowflake summit'21

Product Architecture

Deployment Options

Flexibly deploy on cloud or on-premises

The Fosfor Product Suite is the only end-to-end suite for optimizing all aspects of the data-to-decisions lifecycle. Fosfor helps you make better decisions, ensuring you have the right data in more hands in the fastest time possible. The Fosfor Product Suite is made up of Spectra, a comprehensive DataOps platform; Refract, a data science and MLOps platform; and Lumin, a decision intelligence platform. Taken together, the Fosfor suite helps businesses discover the hidden value in their data. The Fosfor Data Products Unit is part of LTIMindtree, a global technology consulting and digital solutions company with hundreds of clients and operations in more than 30 countries. For more information, visit www.Fosfor.com.

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