

Brochure

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# Unstructured Data Processing for the Snowflake Data Cloud

Unleash the Value of Your  
Unstructured Data

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In Partnership With



## Unstructured Data: A Problem of Plenty

Organizations are overwhelmed by huge volumes of growing unstructured data (PDFs, images, audio, video) of high complexity and variety. Processing this data is a manual-intensive, often error-prone, and time-consuming activity. This poses challenges in the form of high opportunity costs and sub-optimal use of data in day-to-day business.

The Cloud has revolutionized unstructured data storage and orchestration by eliminating silos, simplifying complex pipelines, and degrading performance. What takes it to the next level is disruptive technologies like Snowflake which offer industry-leading performance, scalability, and flexibility with its Data Cloud for structured and unstructured data. However, there is still a need to process this massive amount of data and monetize the value hidden in it. Organizations need interventions for digitization, analytics, automation, and knowledge consumption. An Intelligent Document Processing (IDP) platform that can understand and process data in the cloud along with the right Data Cloud platform is imperative.

## Aspect: An Intelligent Document Processing Platform

The Fosfor Product Suite is the first and only integrated platform specifically designed to work with the Snowflake Data Cloud to facilitate Data Commerce. Aspect by Fosfor augments the Snowflake Data Cloud to create a comprehensive approach to optimize operations across the unstructured data value chain. It is an intelligent document processing platform that automates data extraction from complex documents and images, and enables monetization of the value hidden in unstructured data assets. Aspect moves away from a template-driven approach and provides a completely cognitive context learning approach to data extraction. It is built for business process teams to classify documents, extract entities and knowledge nuggets from documents using Aspect's no-code interface and pre-built cognitive engines, with human-in-the-loop (HITL) hubs for annotations and verifications. Aspect is one of the easiest and fastest intelligent document processing platforms in the market.

## Product Capabilities



### Cognitive Engine Suite

Aspect provides cognitive engines such as classification, named entity extraction, tabular data extraction, object identification, etc., to process a variety of unstructured data (handwritten, printed, logos, signatures) in various global languages. Aspect's ensemble of cognitive engines helps learn the context, and process documents in an automated manner as business users would manually do.



### No-code Platform

Aspect is a completely no-code platform that enables business users to do self-service document processing, allowing them to include unstructured data in analytics, and business processes without going to IT teams. Aspect provides pre-built solution recipes to speed up the solution configuration process.



### Content Processing

Aspect allows the processing of a variety of text or image-based documents in PDF, DOC, XLS, JPG, TIFF, and PNG formats. It provides OCRing, translation, page/content splitting, language detection, logo identification, and more capabilities required for automating document data extraction.



## Continuous Learning

Provides an integrated verification interface for quality check, feedback, and continuous training to achieve straight-through processing over time. Users can train the machine on different cognitive services for adaptive extraction easily without the involvement of experts.



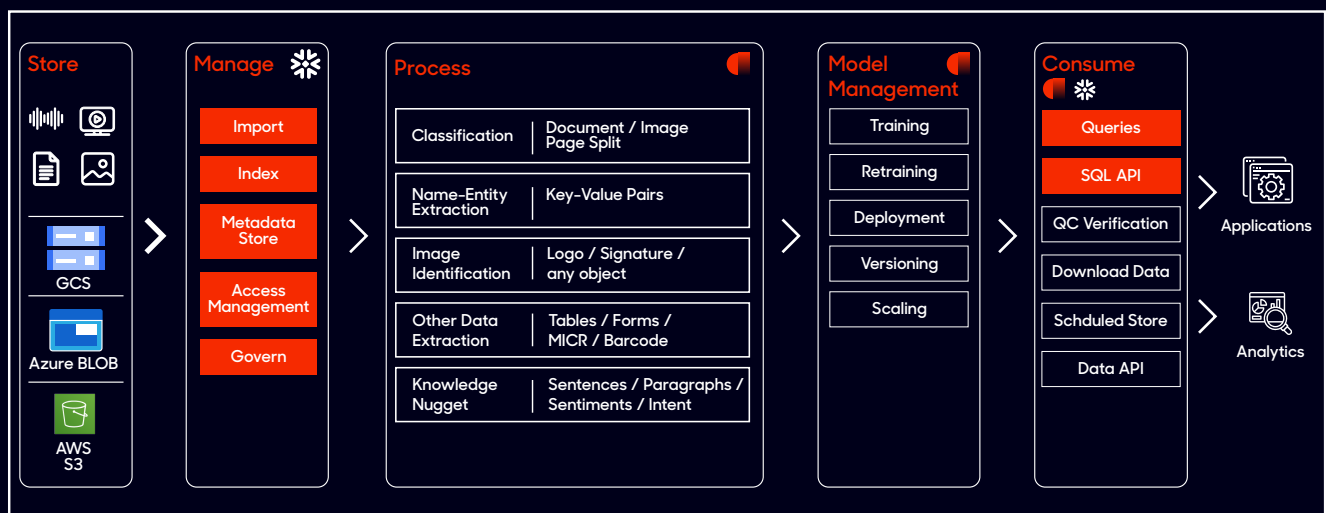
## Integration Mesh

Aspect provides an API suite for all document processing operations as well as to configure solutions and train models, allowing consuming applications to integrate with Aspect easily. Aspect also provides connectors for data sources to import and index data to configure document processing solutions, and to export extracted data in structured/semi-structured JSON/CSV formats. Extracted data can also be pushed to databases or storages with schedulers.

## Delivering Value Together

The integration of Aspect and the Snowflake Data Cloud enables enterprises to harness their information from unstructured data with industry-leading speed and scale. It allows enterprises to develop use cases that include structured and unstructured data together for analytics use cases.

Aspect can be integrated with Snowflake using external functions such as AWS Lambda, Google Cloud Functions, and Azure Functions. Aspect will soon be launching integration support with native Snowflake capabilities including Snowpark and Java UDF.



## Value Proposition

- Aspect powers unstructured data processing and compliments Snowflake's capability to store, manage, govern, and share unstructured data across cloud storages and Snowflake's internal storage
- Aspect provides a no-code approach to automate the data extraction process from unstructured data that makes it available for analytics and process automation
- Aspect provides cognitive engine suites with capabilities to extract data (printed, hand-written, tabular data, MICR, signature, bar codes, etc.) from documents and images
- Aspect creates opportunities for enterprises to combine structured & unstructured data for analytics with Snowflake integration
- Leverage the Aspect-Snowflake integration to monetize the value hidden in your unstructured data, and further generate value from the Snowflake Data Cloud
- Create and deploy solutions for Snowflake industry clouds in the fastest and most accurate way
- Democratize use of unstructured data across the organization through DIY data processing of Aspect and Snowflake
- Explore opportunities to combine structured & unstructured data for analytics with Aspect-Snowflake integration
- Build your own unstructured data processing applications within minutes!

## Power of Aspect + Snowflake: Key Solves



### Financial Statement Analysis

Audit Processes require analyzing financial statements including balance sheets, income statements, and management commentary. Aspect helps extract data from tables and performs a sentiment analysis of management commentary. AI-led automated data extraction can help reduce processing costs, and ensure 100% compliance when submitting key data for audits.



### Smart Contact Center

Contact Center employees are required to answer queries for which they need to refer to many documents like user manuals, operator manuals, and information such as troubleshooting guides, FAQs, etc. Solutions such as Cognitive advisor can leverage Aspect to extract data automatically from product documents, and store information in a way that search can be developed on data via Snowflake. Thus, promoting self-service consumption of information in manuals, and reducing manual efforts in the contact center to improve customer experience.



### Invoice Processing

Invoice formats may vary depending on the vendor/supplier. Leverage Aspect to automate data extraction for line-item details and other key data attributes (purchase order number, date, vendor details, etc.) from invoices, and match these attributes with structured data on Snowflake for purchase order/invoice matching, auditing, reconciliation, etc. Thus, reducing manual efforts, eliminating fraud, and ensuring audit compliance.



### Fund Performance Analysis

Manually processing fund statements and alternate investment documents requires significant data entry and analysis. Automate unstructured document processing with Aspect to extract data from a variety of fund documents. Use extracted data to improve the performance of funds, or suggest the best investment options for your customers.



## Insurance Submission Intake

Insurance submission requires a variety of documents to be manually processed. Leverage Aspect to intelligently process documents, automate document classification, and extract data from documents (policy documents, quotations, binders, etc.) with minimal manual intervention. Store the extracted structured data for analysis and process automation. Improve Average Handling Time (AHT) per policy and gain more customers with frictionless operations.



## Loss Run Analysis

Insurance loss run documents contain tabular data in various formats in documents and excel sheets. This data must be analyzed to understand settlement costs and perform customer risk classification. Aspect can be leveraged to extract tabular data and name-entities from Loss Run Statements from documents, and store them in structured data formats to maintain claim history and prepare reports on filed claims. Evaluate frequency and severity of losses seamlessly and streamline the underwriting process with Aspect.

**Request a demo at : <https://fosfor.com/aspect/>**

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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; Optic, a data fabric to facilitate data discovery-to-consumption journeys; Refract, a Data Science and MLOps platform; Aspect, a no-code unstructured data processing platform; and Lumin, an augmented analytics platform. Taken together, the Fosfor suite helps businesses discover the hidden value in their data. The Fosfor Data Products Unit is part of LTI, a global technology consulting and digital solutions company with hundreds of clients and operations in 31 countries. For more information, visit [Fosfor.com](https://fosfor.com).