iFusion Enterprise

Introduction

A data fabric oriented AI lifecycle management platform

- Virtualized data federation
- On demand data/AI workload compute with storage abstraction
- Metadata driven data workflows
- Unified interface for structured & unstructured data
- Accelerated data wrangling
- Auto annotation for training data
- AutoML with transfer & federated learning
- MLOps with incremental learning

Key Benefits

Scalability
Operationalization of data pipelines and AI models at scale handling TBs of data with minimal resources

Self-service
Life cycle management with drag-drop, low-code graphical interfaces

Governance
Well defined data and AI governance with model management

Cost optimization
Lower TCO compared to data lake/cloud data management systems

Time to market
Template driven rapid use case development

Release Information

Latest release: 3.1.5

New streaming capabilities → Azure storage abstraction → Image processing and viewing results through browser → On demand data/AI workloads

Industries We Serve

Manufacturing
Production Planning and Scheduling, Predictive Maintenance, Asset Tracking, Supply Chain Monitoring, Quality Management, Automation in Factory, General Purpose Worker Robots, Object Detection, Visual Inspection, Noise/Vibration Analysis

Healthcare & Life Sciences
Automated Diagnostics based on Machine Inputs like MRI, CT scans,Asset Tracking and Allocation, Vision-based Pain Assessment, Remote Patient Monitoring

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Powering the Digital Next

iFusion™

Telecommunications
AIOps, Network Monitoring, Fraud Mitigation, Compliance Archival, Data Ingestion, Customer Experience Management

Construction
Autonomous Devices, Drones and Robotic Construction Workers, Asset Tracking, Predictive Maintenance, Site Monitoring

Cold Chain
Inventory Forecasting and Management, Goods Condition Monitoring and Preventive Alerts, Dynamic Route Optimization, Driver Analytics

Technology Stack		
	Storage	HDFS & HIVE, Elastic Index, PostgreSQL
	Real Time Processing	KAFKA, SPARK Streaming
	Batch Processing	KAFKA, HIVE, SPARK SQL
	Data Virtualization	Presto
	AI/ML	Python, PyTorch, TensorFlow
	Workflow & Orchestration	JVM custom implementation
	APIs	RESTful APIs
	Web UI	Angular
	Reporting & Dashboards	iFusion inbuilt tool, Tableau

Integrations (Partial List)	
	CASSANDRA | MYSQL | POSTGRESQL | TERADATA ORACLE | HIVE | EXEC | HTTP | AVRO | WEBSOCKET MQTT | KAFKA | CLUSTRIX | HEXIS | FACEBOOK TWITTER | SYSLOGTCP | SYSLOGUDP | SPOOLDIR SFTP | SQLSERVER | CENTERA

Flexible Components	
	■ Developer friendly SDKs for custom adapters, algorithms and connectors.
	■ Support to 3rd party tools like MDM, ETL, AD, ReST APIs, etc.,

Data Volumes Handled	
	Terabytes to Petabytes of data for ingestion, querying, ad-hoc querying and AI/ML

Performance Benchmark	
	■ Ingests 1TB in 2.5 hours with encryptions and indexing
	■ Query support up to 10x faster than competing technologies
	■ Distributed AI/ML workloads

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Deployment Options

- On-premise
- Cloud – Public, Private, and Hybrid
- Fully managed service
- Service delivery based on agreed metrics

Pricing Options

- Node or virtual core based license
- Outcome based
- Subscription based
- Blended with services
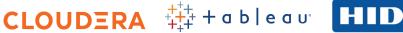- Pre-existing templatized solutions
- Support as required

Customers

ACTIV SURGICAL · HDFC Life · Atos · Maroc Telecom · Deloitte. · IG · Lenovo · Qualcomm

Partners

interoute · CLOUDERA · tableau · HID · HORTONWORKS PARTNERWORKS HDP CERTIFIED READY · HORTONWORKS PARTNERWORKS HDP CERTIFIED YARN READY

Microsoft Partner
Gold Cloud Platform
Silver Application Development
Silver Application Integration
Microsoft

Microsoft **GOLD Partner** for the Azure Cloud Platform, **SILVER competency** in the "Application Development" and "Application Integration" streams.

iFusion™ is available on Microsoft Azure Marketplace with one-click deployment.

Check it out here

About iFusion

iFusion is an autonomous AI platform that accelerates the application of AI, ML, and analytics for businesses in the cognitive era. It enables enterprises with self-driven and sustainable AI adoption for intelligent decision-making. It equips ISVs with a plug-and-play platform that would provide the foundational components and expedite the development of AI and analytics aspects into their product.