

Robotic Data Automation Fabric

World's First Robotic Data Automation Fabric to unify Observability, AIOps and Automation

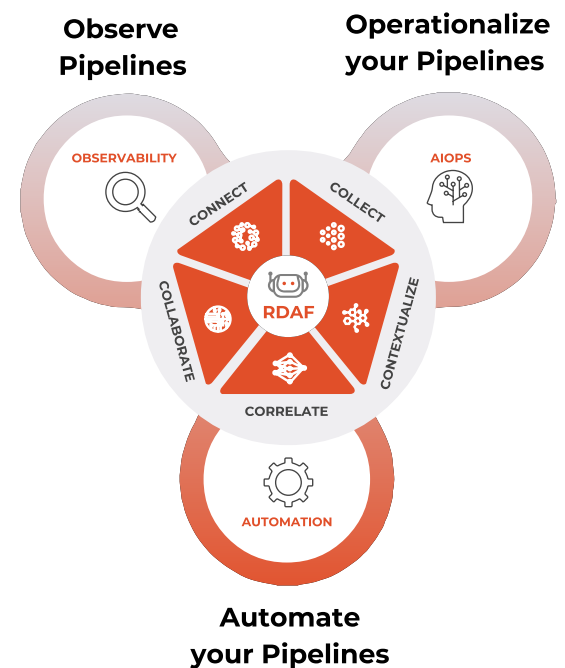
RDAF is world's first data fabric architected to unify data observability, AIOps and automation domains and take on the challenges of data intelligence and automation.

Data Challenges: Enterprises have struggled to collaborate well around their data, which inhibits their ability to adopt and succeed with Digital Transformation, glean actionable insights or innovate. Specifically, Digital-first businesses are striving for service assurance, which has become the lifeblood for their businesses applications. But these applications are increasingly getting complex across legacy and containerized cloud-native architectures, multi-cloud distributed micro services, and with the rise of 5G and edge. Service assurance needs full-stack observability; however, customers need an approach to tame the data deluge, handle the velocity with streaming datasets and veracity, while gaining actionable insights.

RDAF Solution: RDAF consolidates your disparate data sources, converges on the root cause by applying dynamic AI/ML pipelines and concludes by remediating with intelligent automation.

RDAF eliminates streaming data silos at the edge, on-premises or multi-cloud, democratizing and self-serving data insights to multiple personas - IT domain experts, DataOps and SecOps teams and citizen developers. RDAF is a secure, multi-tenant, No-code fabric that enables IT and business professionals with minimal or no coding experience to build observable data pipelines and fill the talent gaps in their organization.

Data-driven organizations should explore, evaluate and implement RDAF for faster innovation, faster time to value, meet SLAs and SLOs, and excel at customer experiences.



RDAF Features

→ Multi-Cloud native architecture

- a. Secure, multi-tenant, microservices and containerized based
- b. Scalable - 1000's of cores, 10's of PB/day ingest, ms latency messaging fabric
- c. Deploy on any Kubernetes distros with Helm chart
- d. Regex, Grok, CIDR pattern matching support

→ Low code / No code platform

- a. IT Operational and Business Teams with no coding experience can build observable data pipelines and fill the talent gaps in their organization
- b. cfxQL – common query language for disparate data sources

→ Self-service IDE (Integrated development environment)

- a. Experiment, Automate and Publish Data & ML Pipelines for Observability and Log Intelligence with RDA Studio

→ Centralized RDA Client

- a. Python based CLI for RDAF artifact monitoring from anywhere

→ Metadata dictionaries

- a. Knowledge graphs consumed by RDA pipelines
- b. Persistent streams for analytics
- c. Application data mapping

→ Visual customizable dashboards

- a. Formatting templates

→ Service Blueprints

- a. Customize the RDA pipelines dynamically on the fly

→ Eliminate data silos

- a. democratizing and self-serving data insights to multiple personas - citizen developers, CloudOps and SecOps teams, Splunk, Elastic admins, IT engineers, SREs, and DevOps, DataOps teams.

→ Data Fabric for streaming data

- a. Secure and low latency messaging fabric between cfxEdge & cfxCloud

→ Build pipelines with 1000+ prebuilt DataBots

- a. Databot is a containerized atomic unit, with access to datastore and messaging api's, AI/ML libraries and low code programmability

→ Data services

- a. Log Intelligence, AIOps, AIA, ITSM, DataOps, MLOps

→ Integrations - BYOT – Bring your own tool

- a. Unify all disparate data sources and sinks with on the fly integration
- b. Parallel high throughput streaming and batch ingest at edge or cloud
- c. Seamless onboarding

→ Data Governance

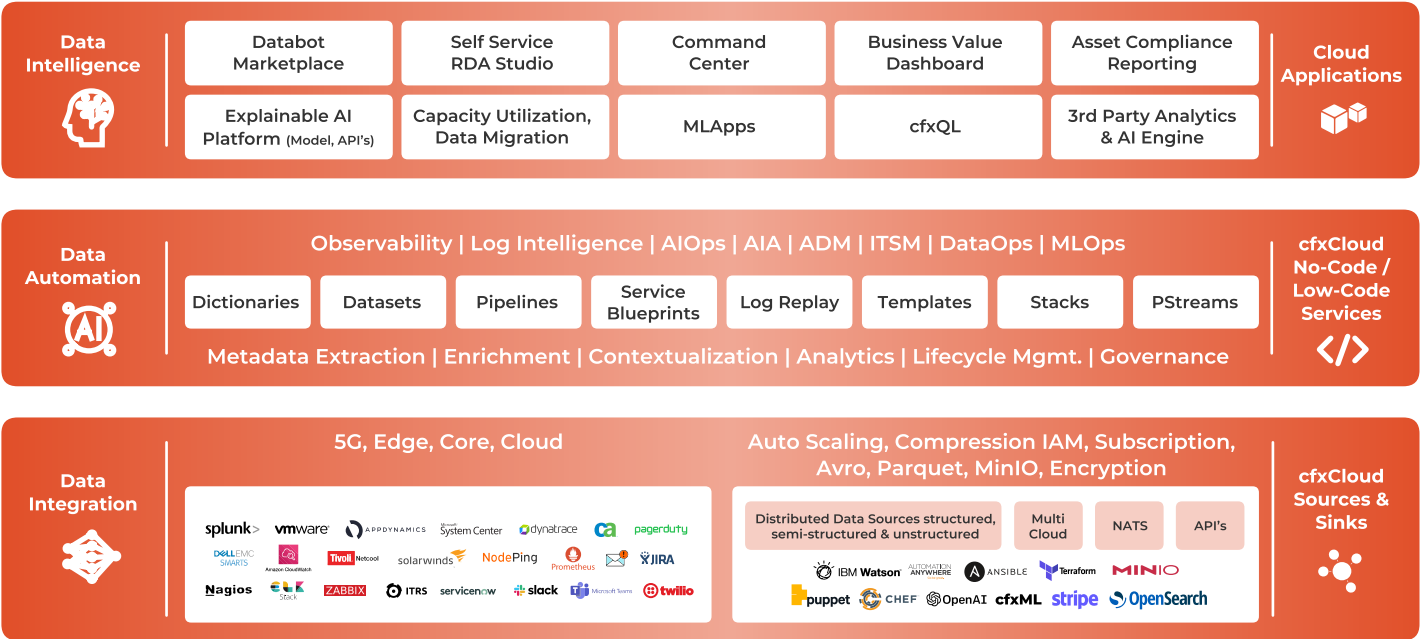
- a. Centralized registration
- b. Audit log
- c. Credentials, encryption, versioning
- d. Full fidelity copy for replay

→ Explainable AI

- a. Supervised, Unsupervised, Reinforcement, Federated learning
- b. Reproducibility, explainability
- c. OpenAI, IBM Watson, Hugging Face and prebuilt Databots

Continous realtime visibility with RDAF

Observability, AIOps and Automation pipelines



cfxCloud

Robotic Data Automation Fabric, is deployed as an observability pipeline, running in our hybrid cfxCloud, an AWS SaaS based offering for seamless onboarding. Customer has the choice to deploy on premises, in cfxCloud or datapath on premises or customer's VPC with control path in cfxCloud. cfxCloud securely integrates with cfxEdge over a low latency, messaging interface.

cfxEdge

cfxEdge, is an observability pipeline running at the edge or 3rd party data source / sink and is securely integrated with cfxCloud with RDAF. cfxEdge provides a mechanism to collect, transform using AI/ ML with reinforcement and federated learning and ingest selective data in cfxCloud in a parallel, high throughput and secure manner.



Consolidate using observability

- Observe a number of diverse data sources across the full stack
- Connect to these different data sources with different data formats
- Collect, correlate data and metadata while applying in-place analytics at the edge or cloud



Converge using AIOps and DataOps

- Contextualize, correlate, transform building observable data pipelines
- Find patterns, root cause and anomalies using Explainable AI & NLP



Conclude with hyperautomation

- Formulate automation pipelines using Low Code
- Intelligently route data to enable reactive and proactive service management