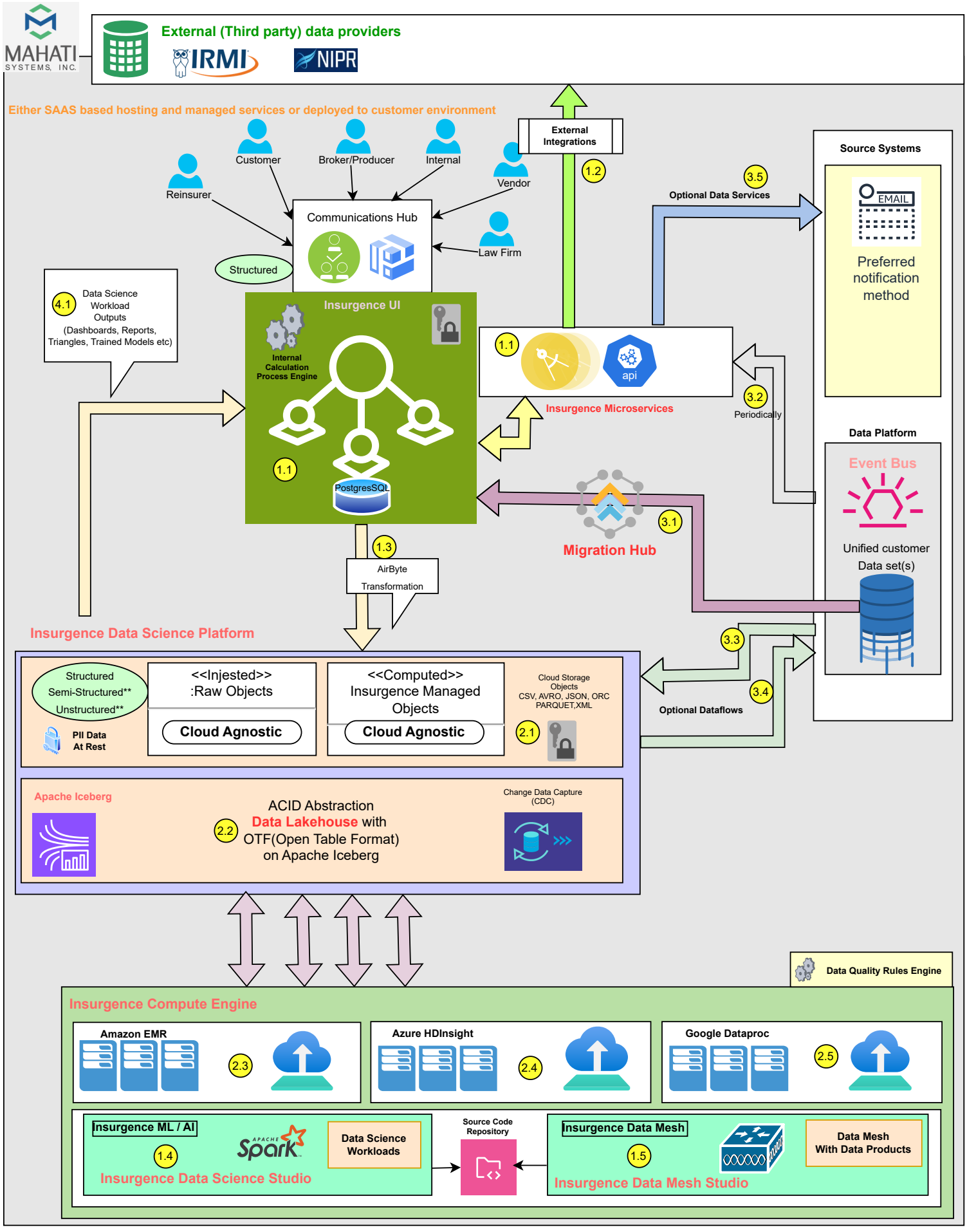
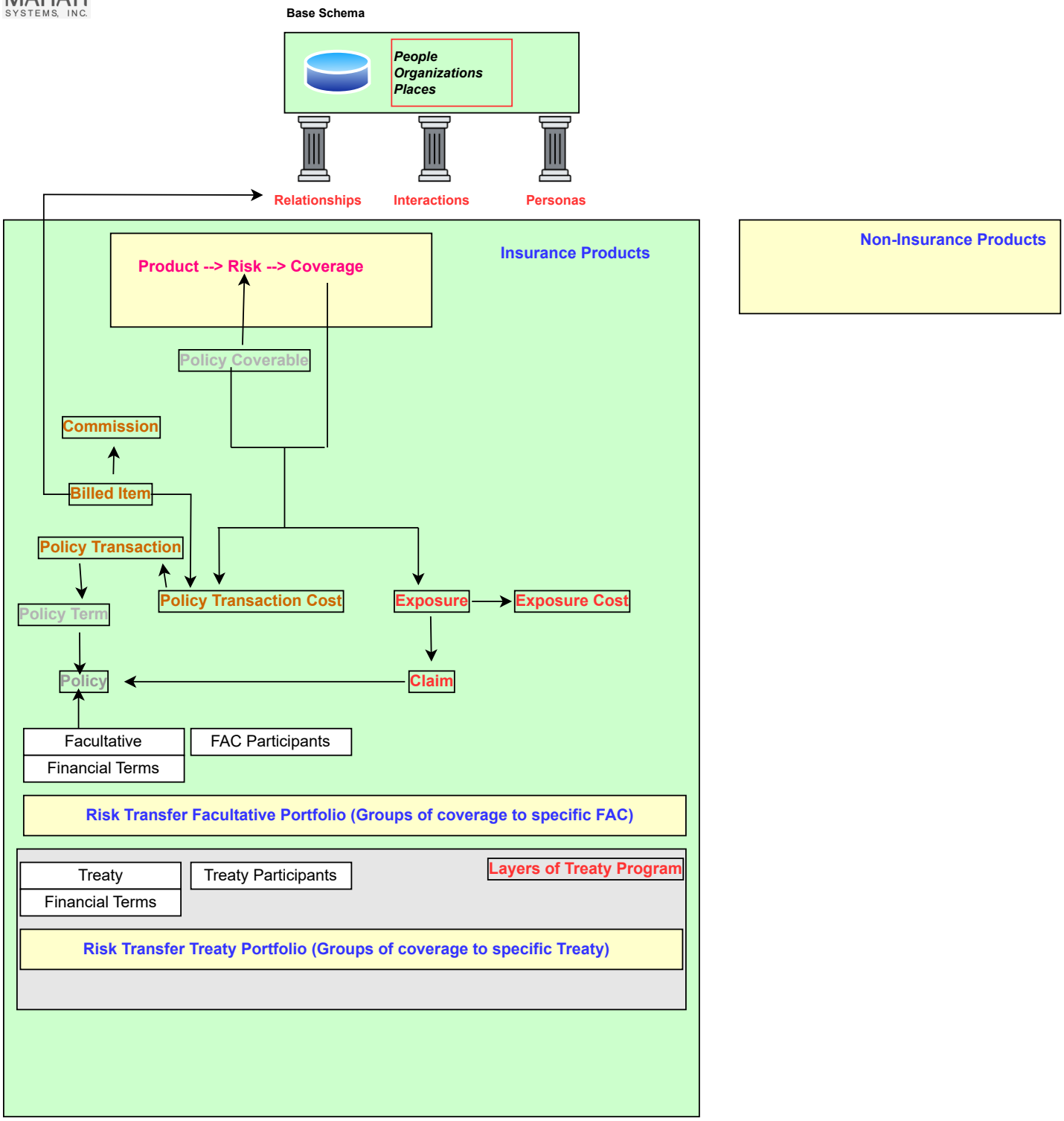
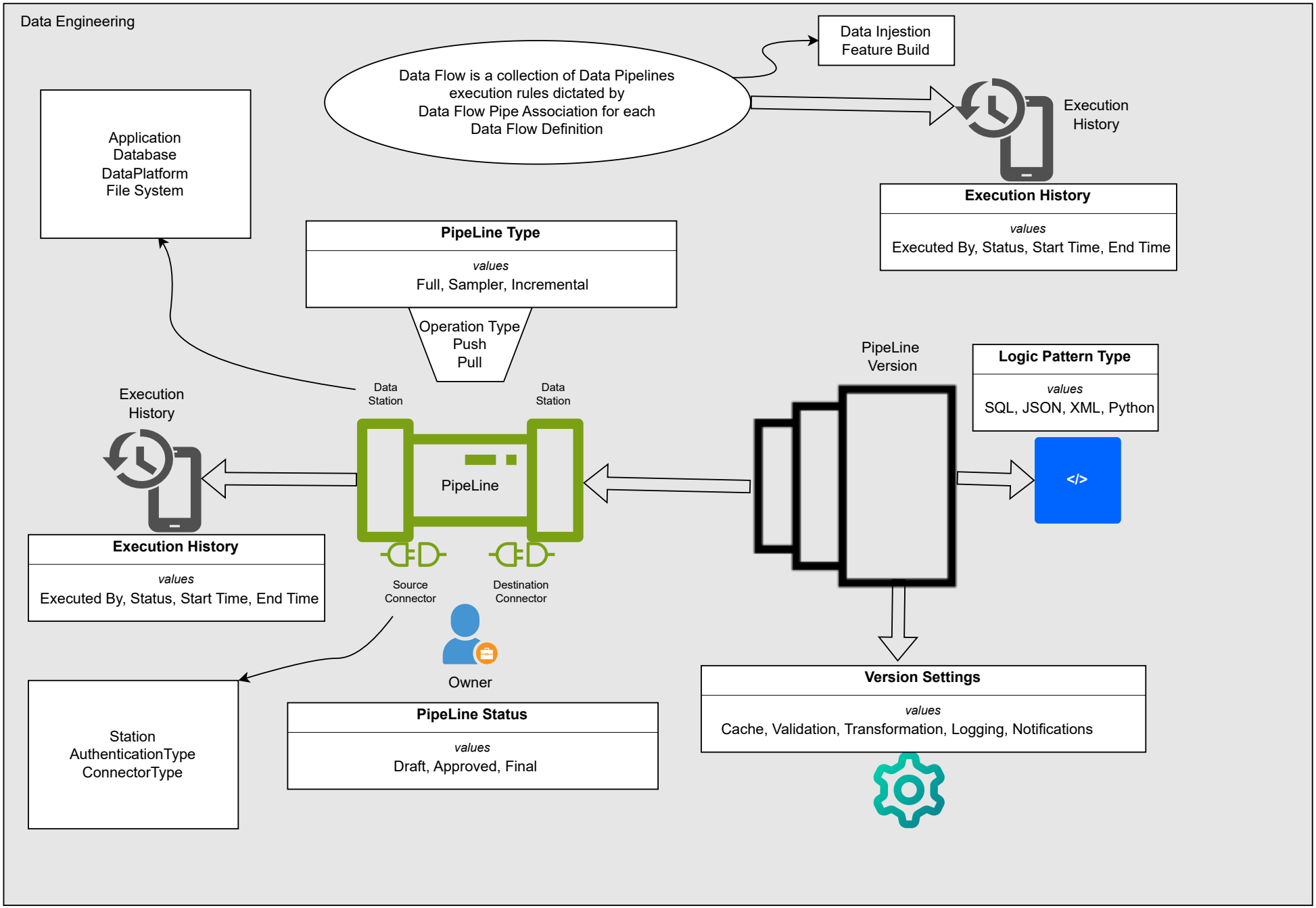

MAHATI SYSTEMS, INC.
External (Third party) data providers
IRMI
NIPR
Either SAAS based hosting and managed services or deployed to customer environment
Customer
Broker/Producer
Internal
Reinsurer
Vendor
Law Firm
Communications Hub
Structured
External Integrations
1.2
3.5
Optional Data Services
Source Systems
EMAIL
Preferred notification method
4.1
Data Science Workload Outputs
(Dashboards, Reports, Triangles, Trained Models etc)
Insurgence UI
Internal Calculation Process Engine
1.1
PostgresSQL
1.1
api
Insurgence Microservices
3.2
Periodically
Data Platform
Event Bus
Unified customer Data set(s)
Migration Hub
3.1
1.3
AirByte
Transformation
Insurgence Data Science Platform
Structured
Semi-Structured**
Unstructured**
PII Data At Rest
<<Injested>>
:Raw Objects
Cloud Agnostic
<<Computed>>
Insurgence Managed Objects
Cloud Agnostic
Cloud Storage Objects
CSV, AVRO, JSON, ORC PARQUET,XML
2.1
3.3
3.4
Optional Dataflows
Apache Iceberg
2.2
ACID Abstraction
Data Lakehouse with
OTF(Open Table Format)
on Apache Iceberg
Change Data Capture (CDC)
Data Quality Rules Engine
Insurgence Compute Engine
Amazon EMR
2.3
Azure HDInsight
2.4
Google Dataproc
2.5
Insurgence ML / AI
1.4
Insurgence Data Science Studio
Spark
Data Science Workloads
Source Code Repository
Insurgence Data Mesh
1.5
Insurgence Data Mesh Studio
Data Mesh With Data Products


Base Schema
People
Organizations
Places
Relationships
Interactions
Personas
Insurance Products
Product --> Risk --> Coverage
Policy Coverable
Commission
Billed Item
Policy Transaction
Policy Transaction Cost
Exposure
Exposure Cost
Policy Term
Policy
Claim
Facultative
Financial Terms
FAC Participants
Risk Transfer Facultative Portfolio (Groups of coverage to specific FAC)
Treaty
Financial Terms
Treaty Participants
Layers of Treaty Program
Risk Transfer Treaty Portfolio (Groups of coverage to specific Treaty)
Non-Insurance Products

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