Infor OS

Data Management

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Infor

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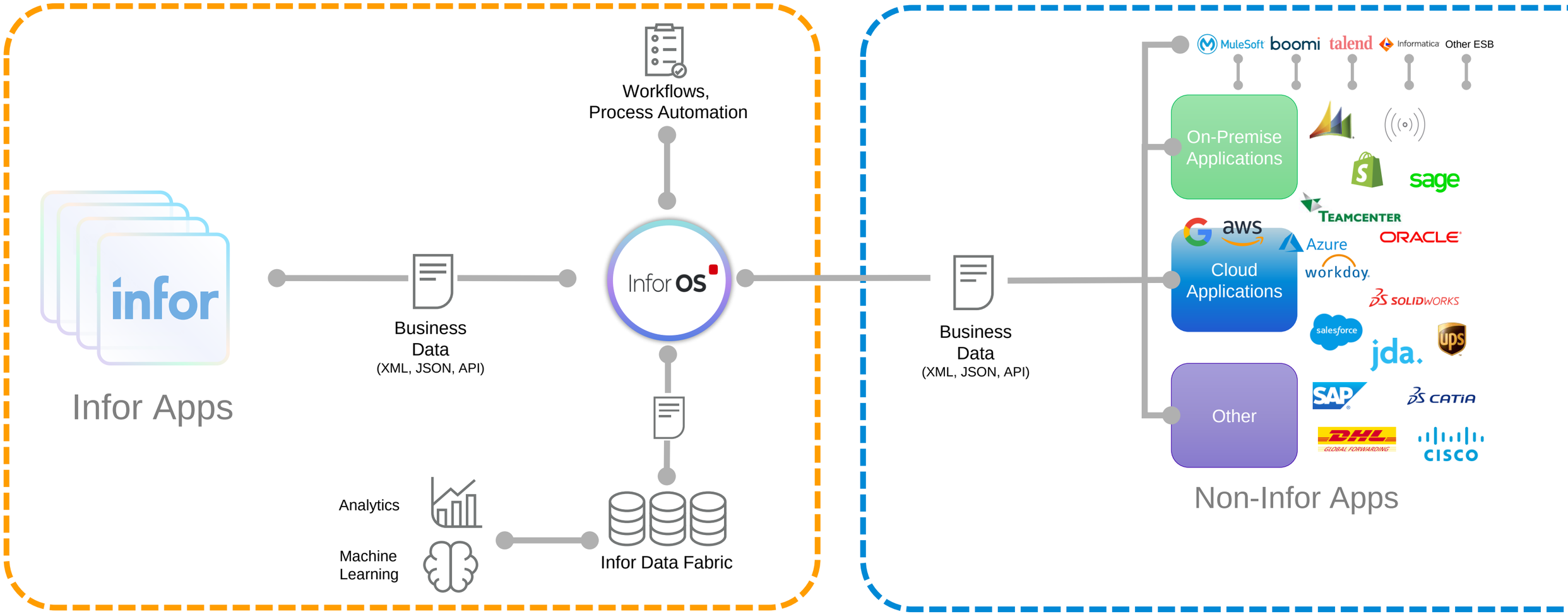
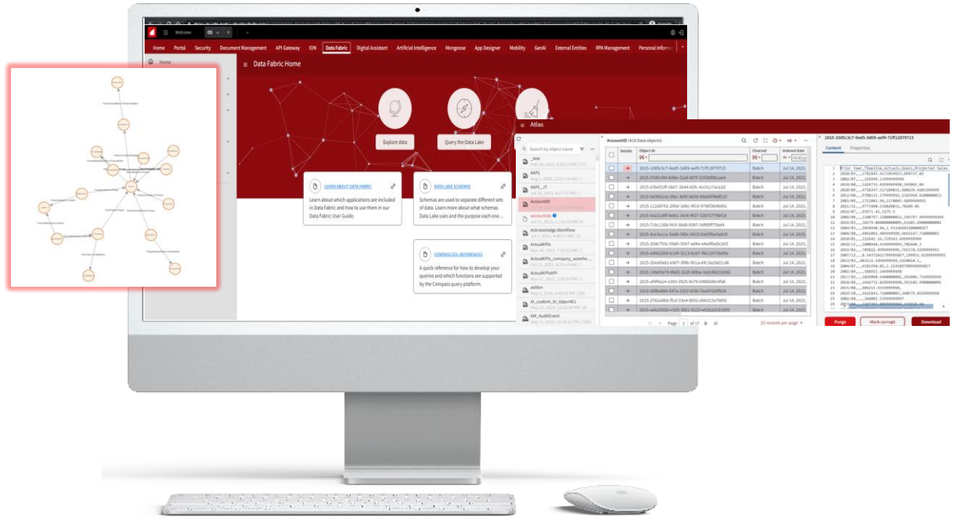
Integration architecture



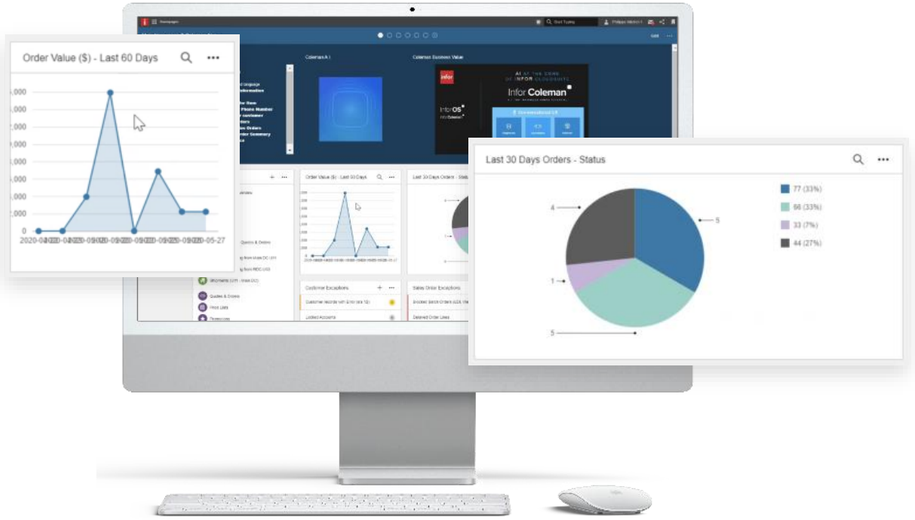
Data (+) Intelligence

Data Platform



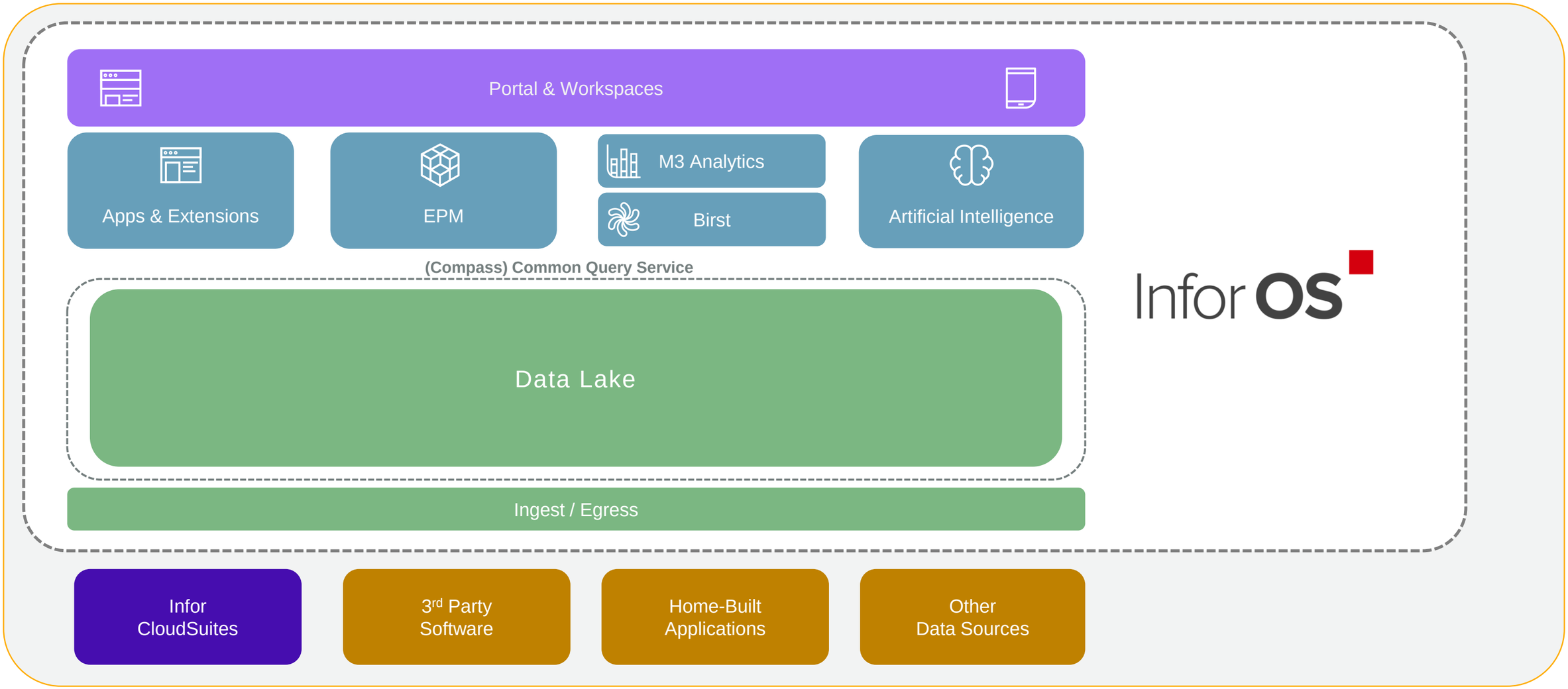
- Data Ingestion
- Data Catalog
- Data Lake
- Data Security
- Data (Stream) Pipelines
- Metagraph
- Compass Query
- Data Management

Intelligence

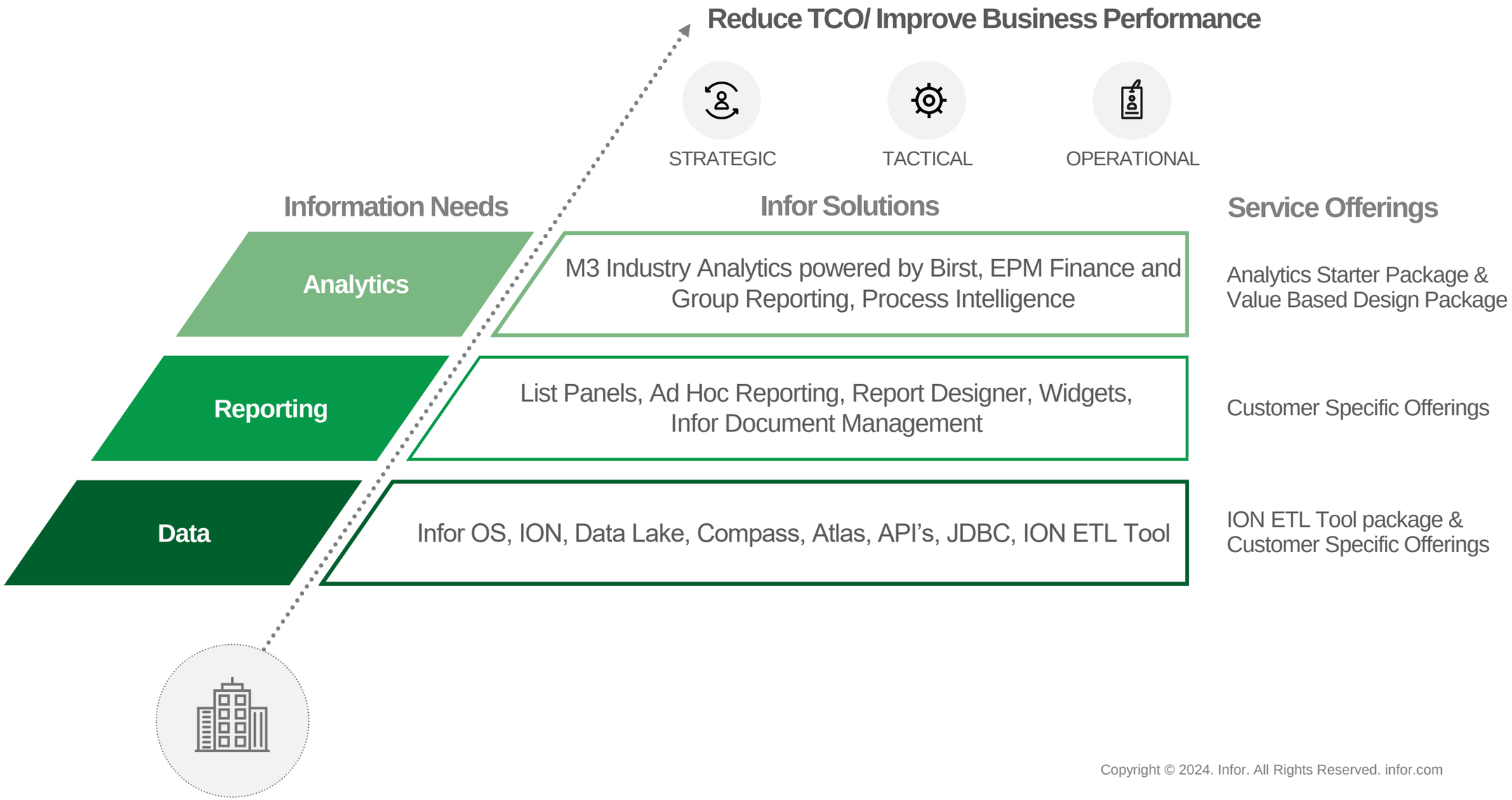


- Insights
- Dashboards
- Analytics Widgets
- Artificial Intelligence
- Content
- Reports
- Intelligent Workspaces
- Process Intelligence

Data Fabric & Related Applications Overview



M3 CloudSuite Data Management



M3 Analytics – Out of the Box Content

Finance

- Key Ratio, Income Statement Balance Sheet
- General Ledger
- Stock Valuation
- Operational Metrics AP
- Accounts Receivable

Sales

- Sales Orders
- Sales Analytics
- Delivery Performance

Procurement

- Purchase Analytics
- Purchase Orders

Production

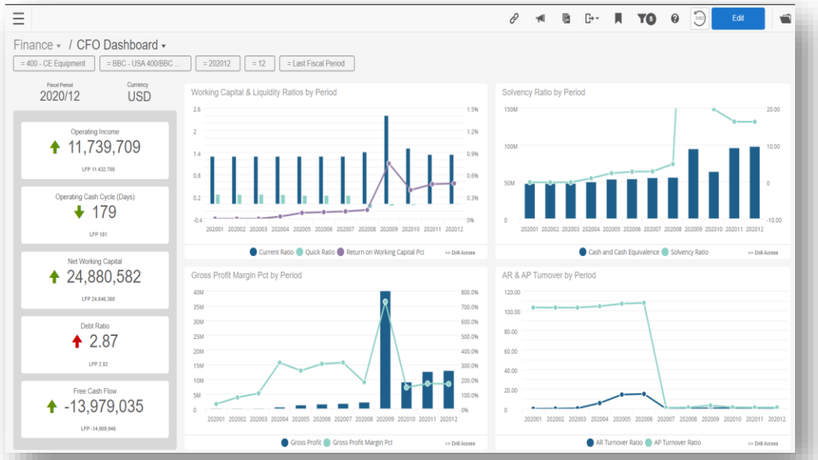
- Work Center Utilization
- Operational Analysis
- Order Costing

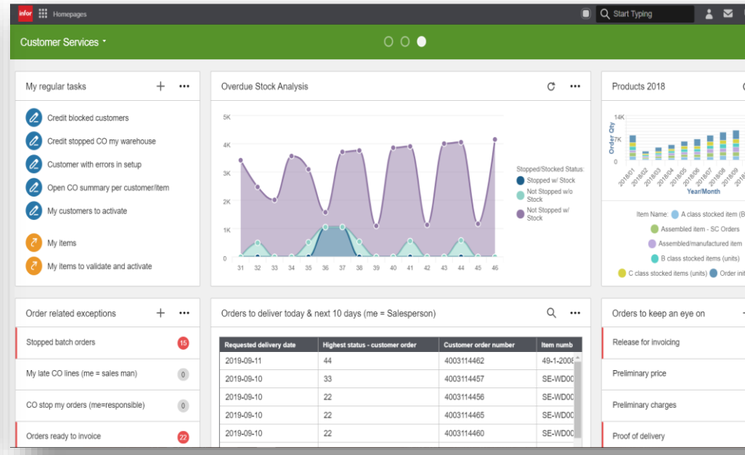
Warehouse

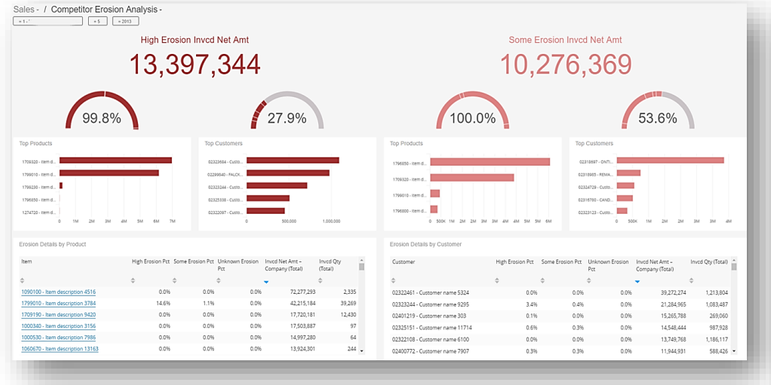
- Stock Statistics
- Stock Detailed

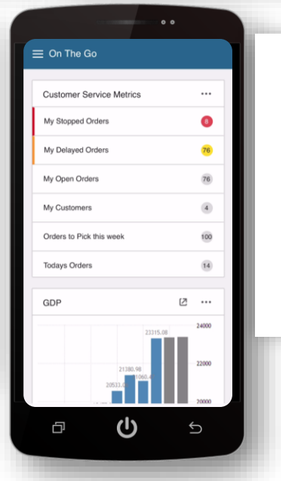
Equipment and Rental

- Warranty Claims
- Labor Resource
- Technician Performance
- Rental Utilization



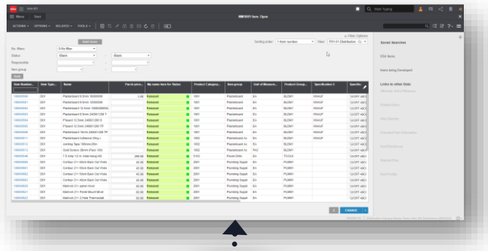


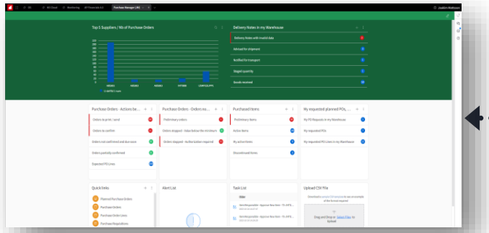




- ✓ 50+ Dashboards
- ✓ 300+ Reports
- ✓ 1200+ Metrics
- ✓ 100+ Dimensions
- ✓ 1500+ Attributes
- ✓ Drillbacks to M3

M3 Reporting Options

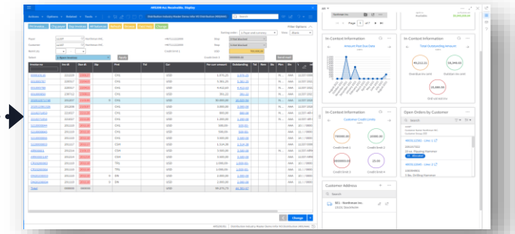


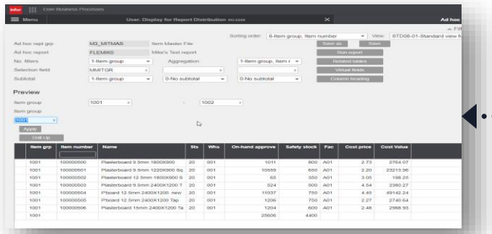


Workspaces & Infor Go

M3 On-Line Enquires

Contextual Apps

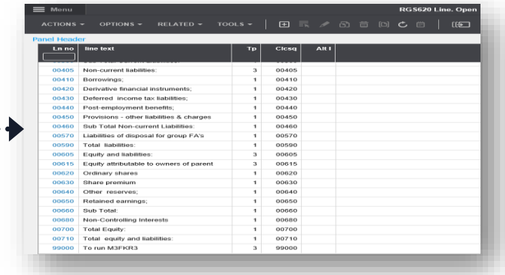


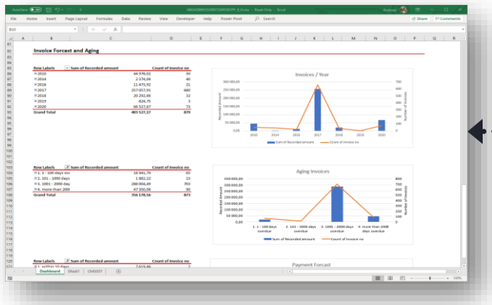


M3 Ad Hoc Reporting

M3 Business Engine

M3 Financial Report Writer

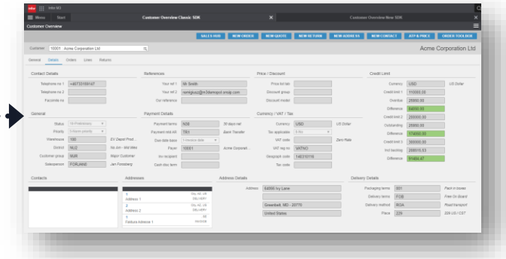


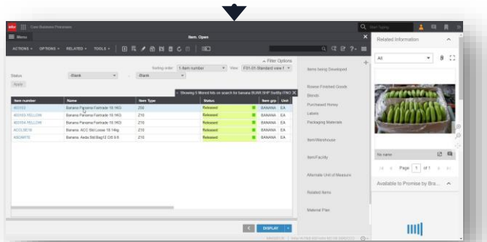


M3 Standard Reports

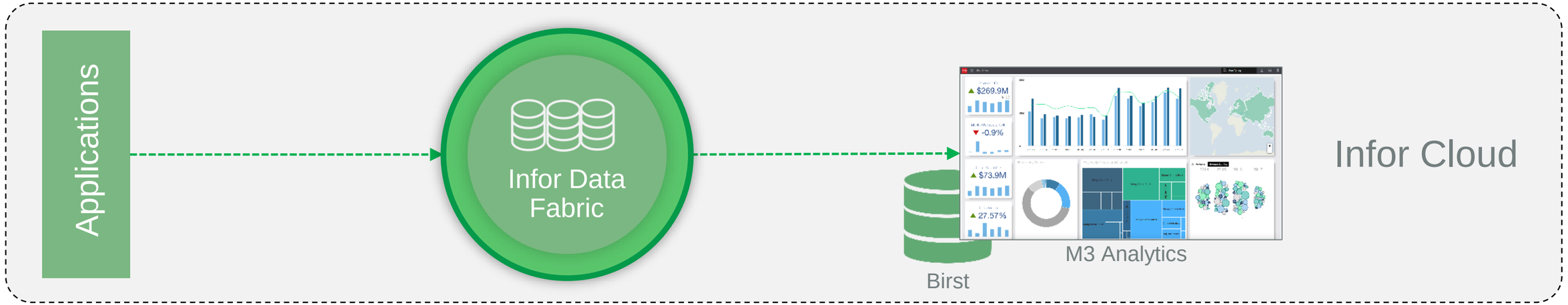
M3 Search

M3 H5 SDK & IDM

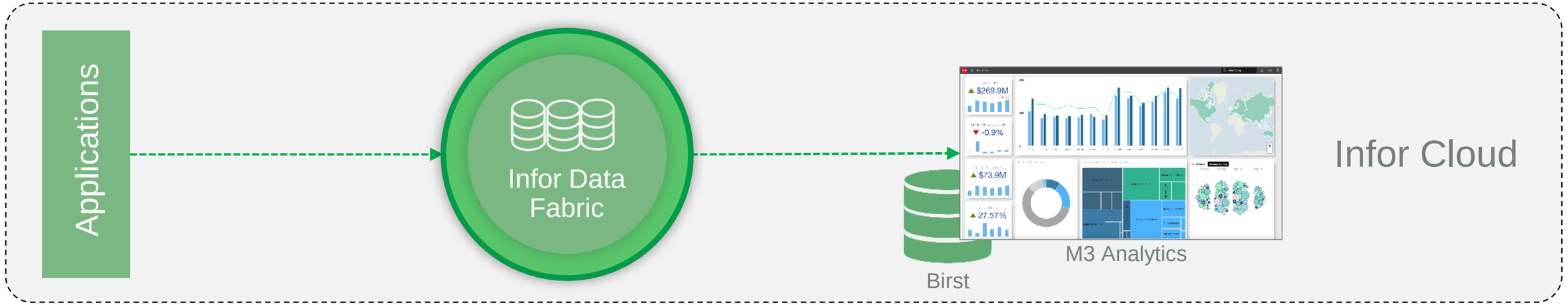


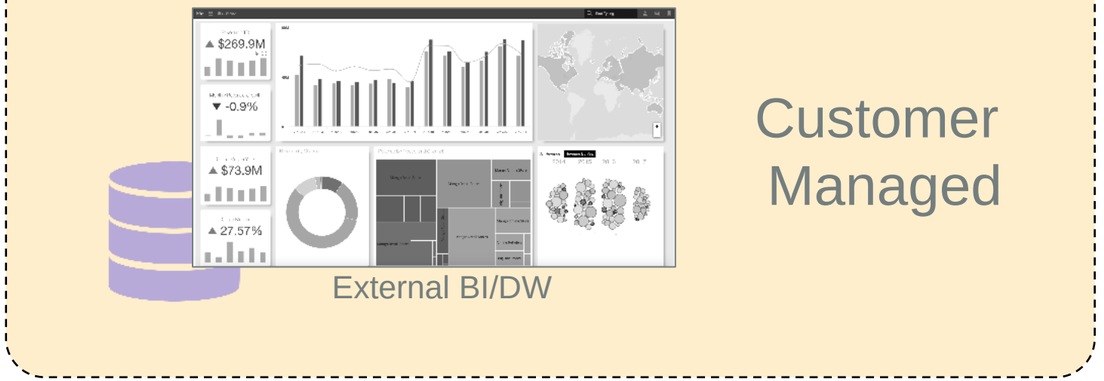


Data Lake – With M3 Analytics



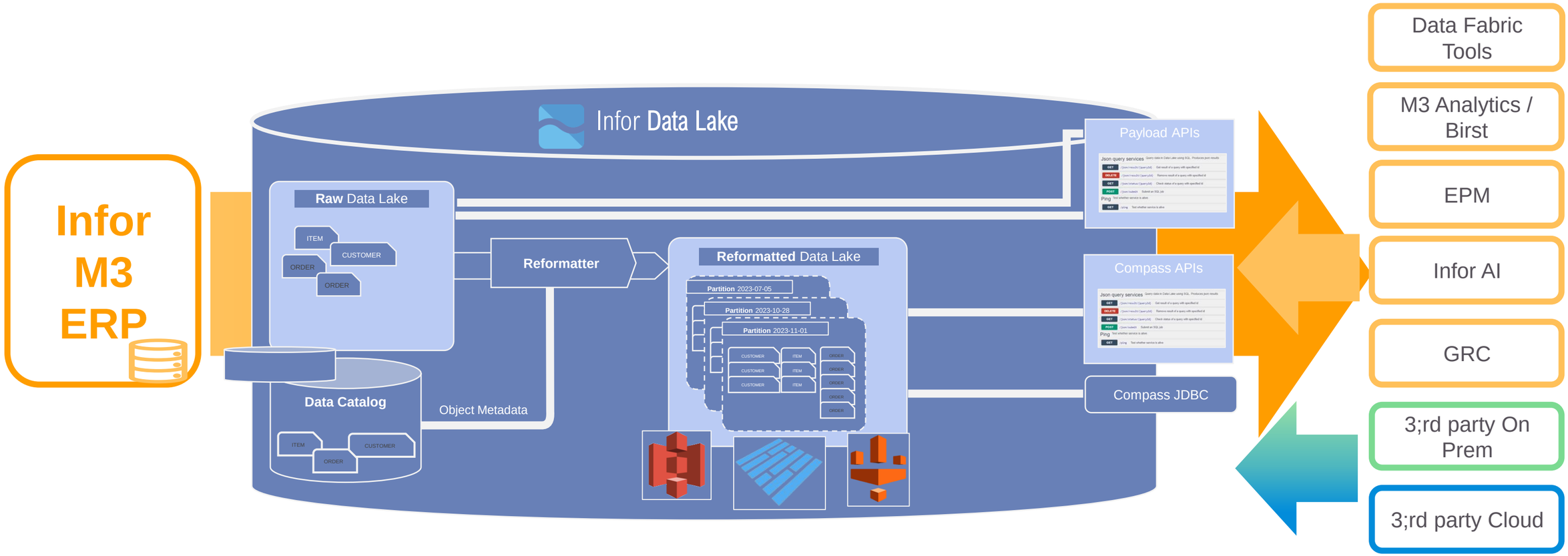
Data Lake – With external BI/DW



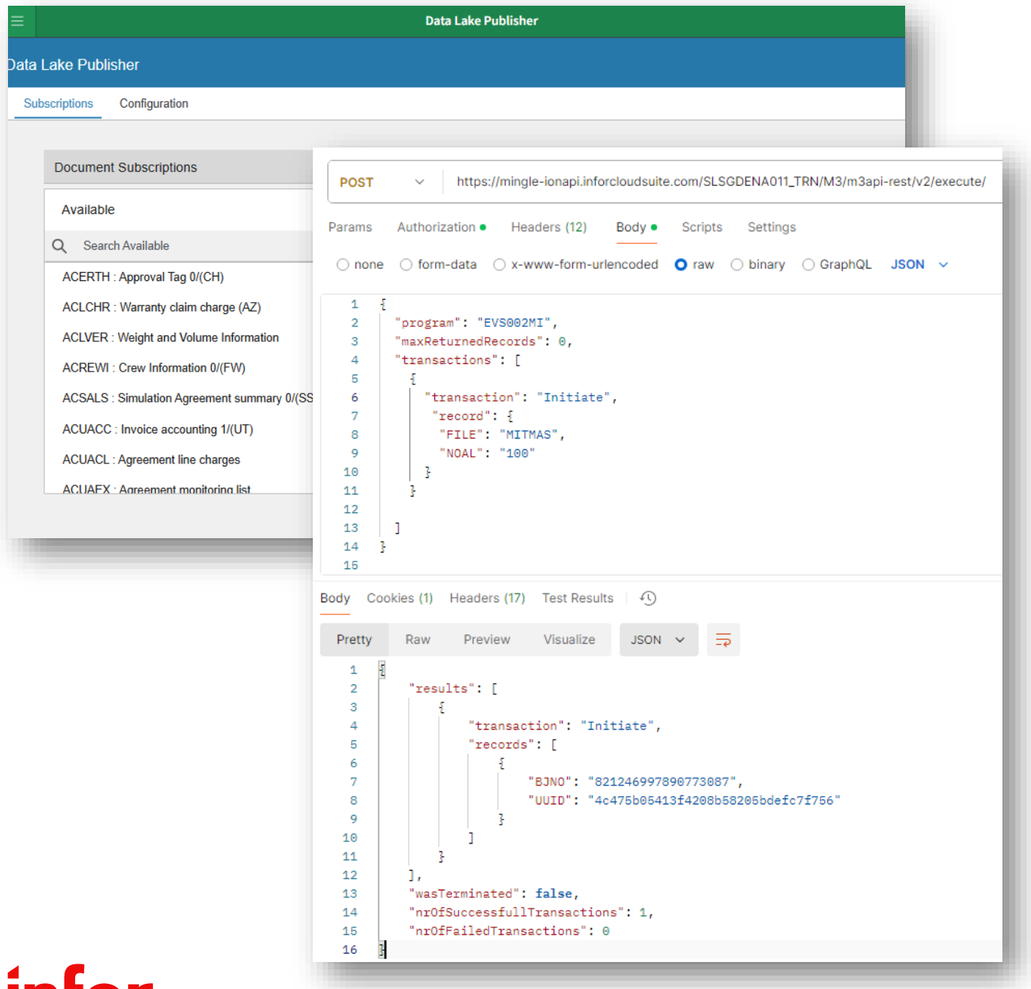


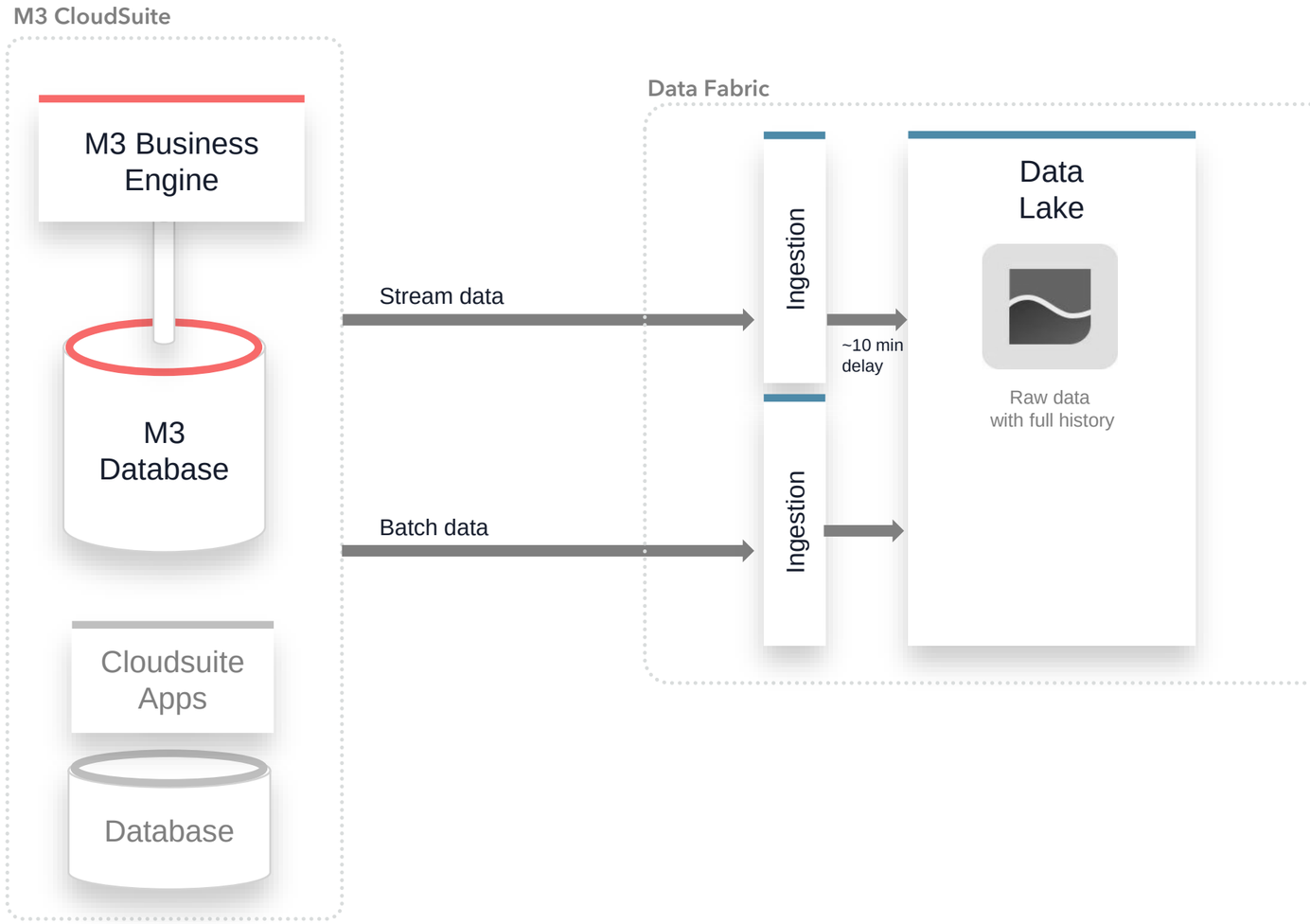
Data Fabric

Infor Data Management

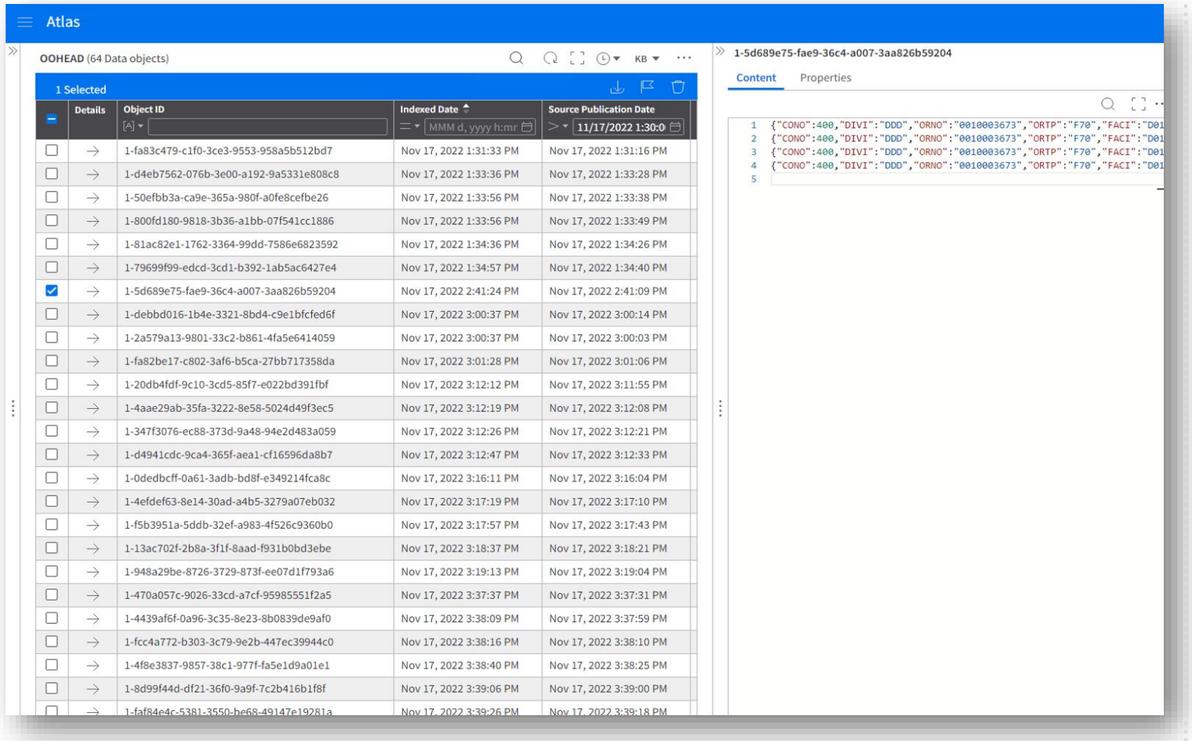


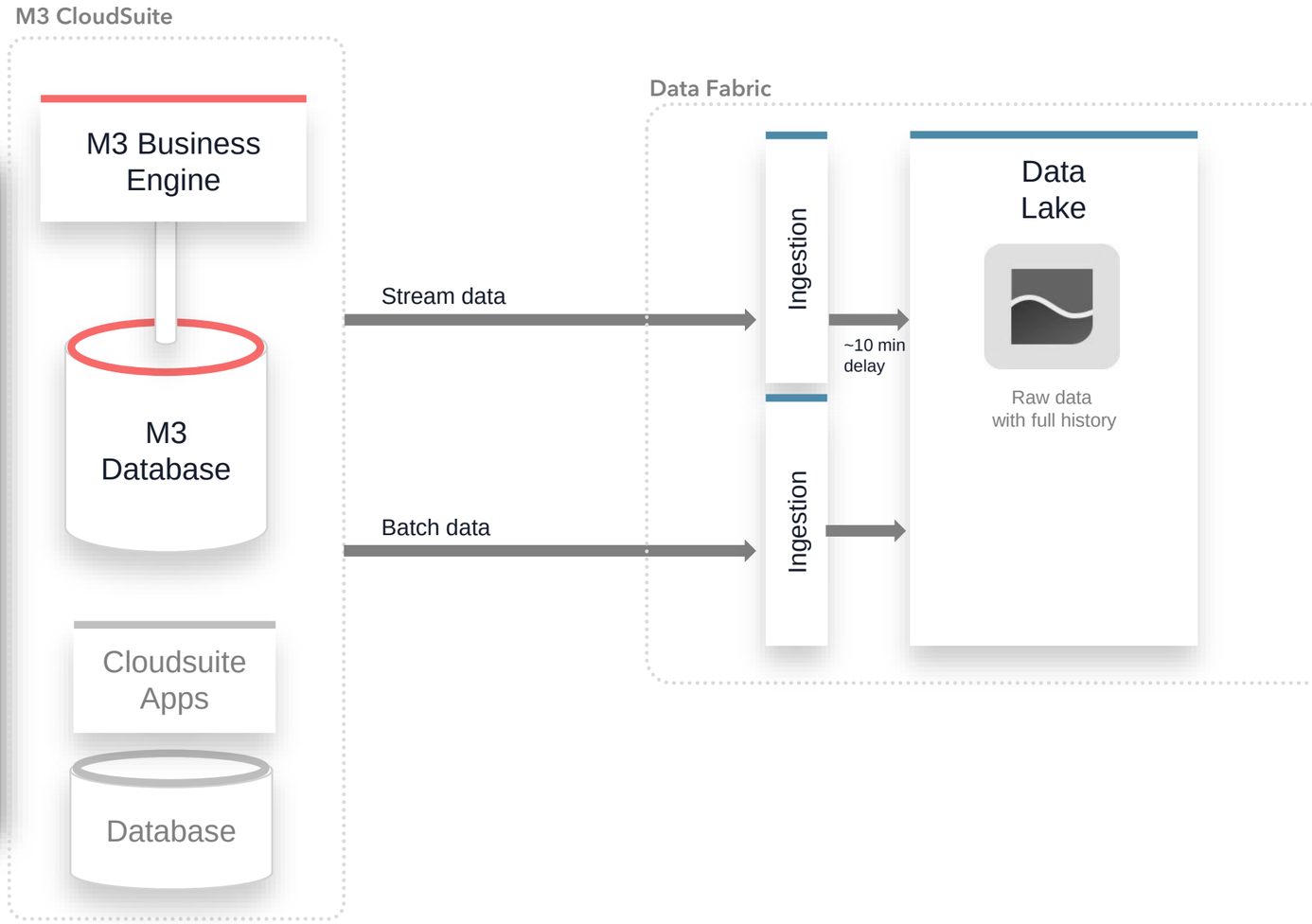
M3 to Data Fabric



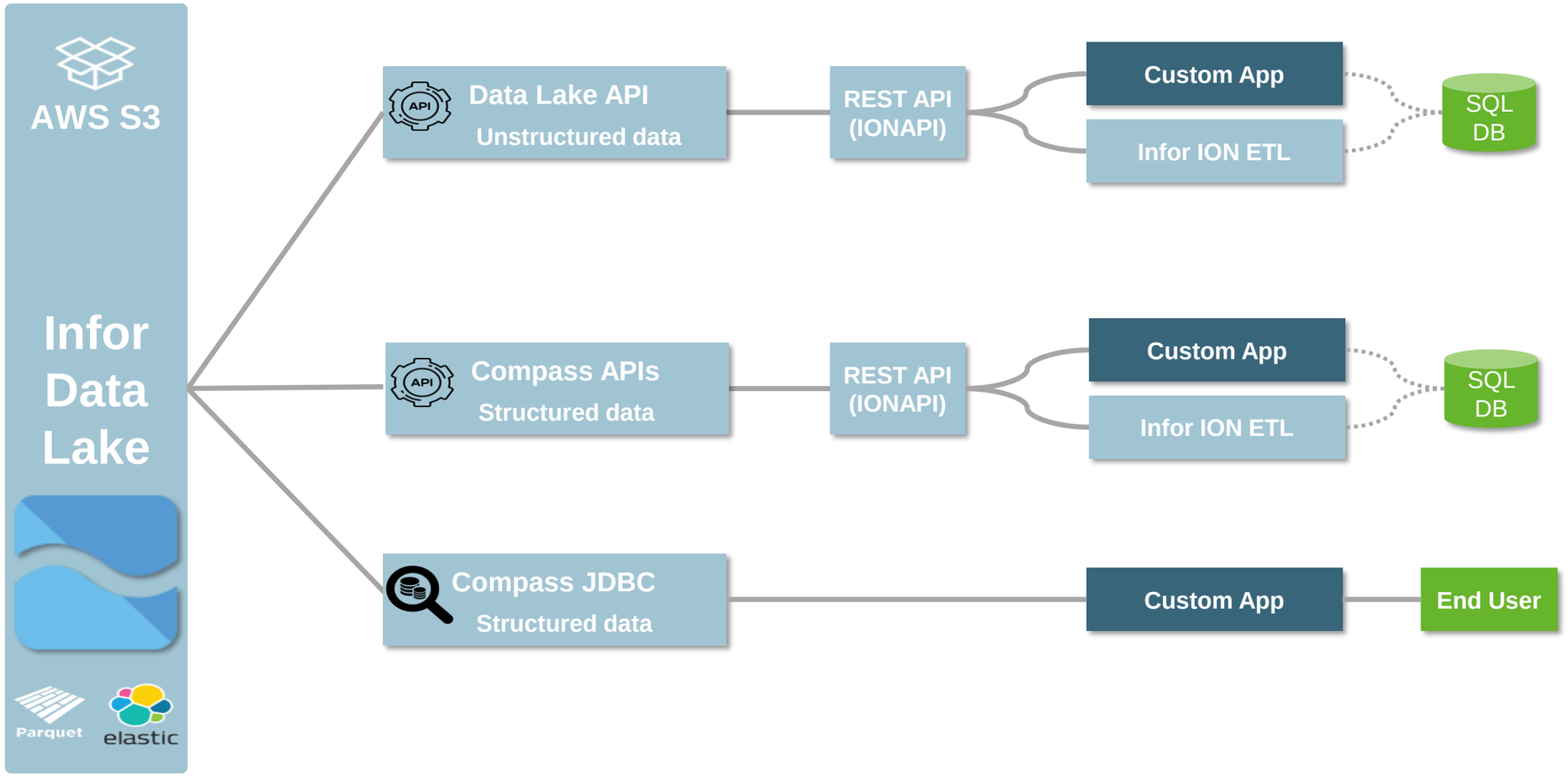


M3 to Data Fabric





Consumers Overview



Returns the raw JSON ***unstructured*** data as ingested into data lake. Requires the custom application to parse data. Very fast.

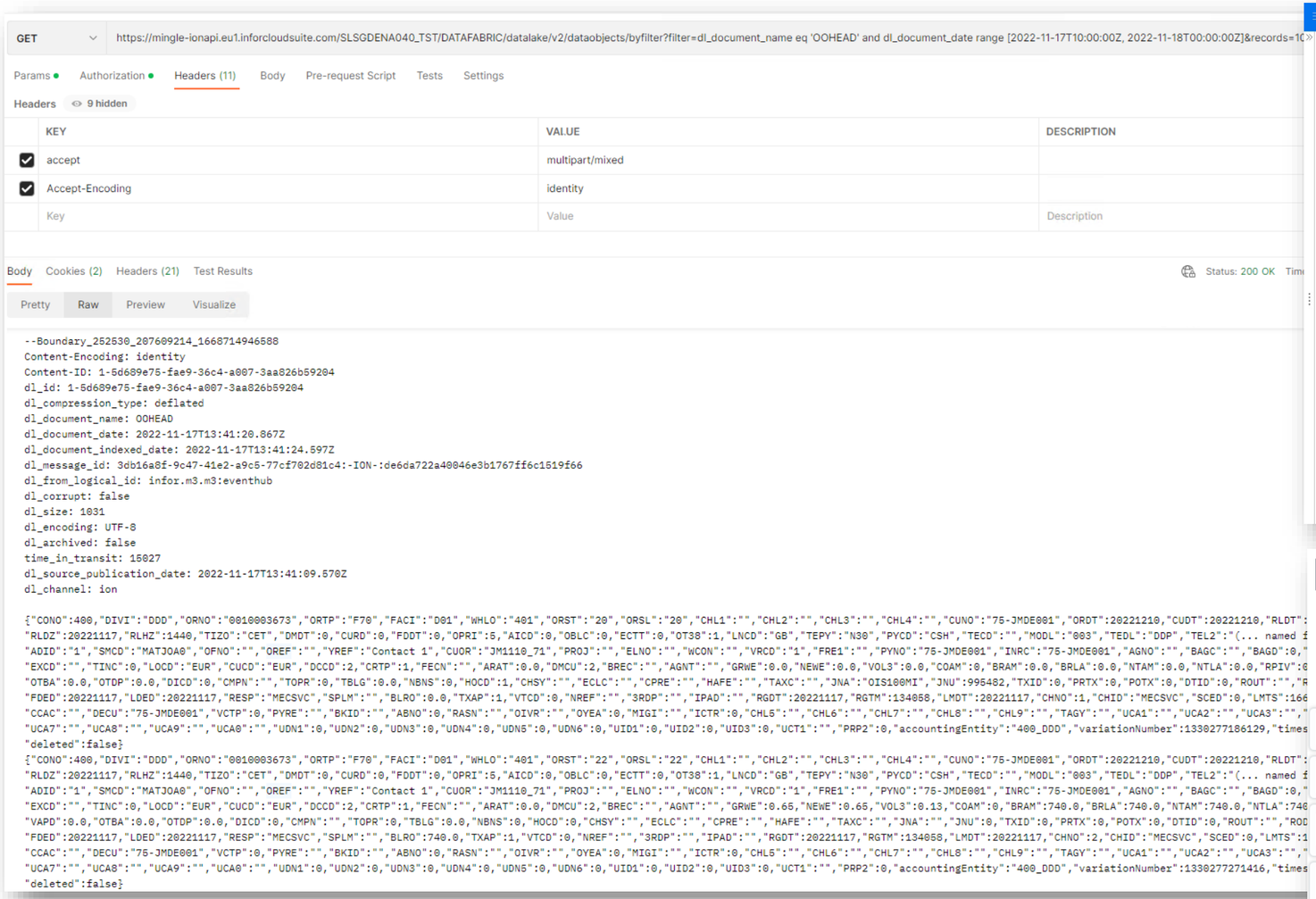
Possible to use SQL Queries to extract ***structured*** data. Supports SQL JOIN. Returns SQL result set data. Potentially a bit slow but requires logic to manage the raw data.

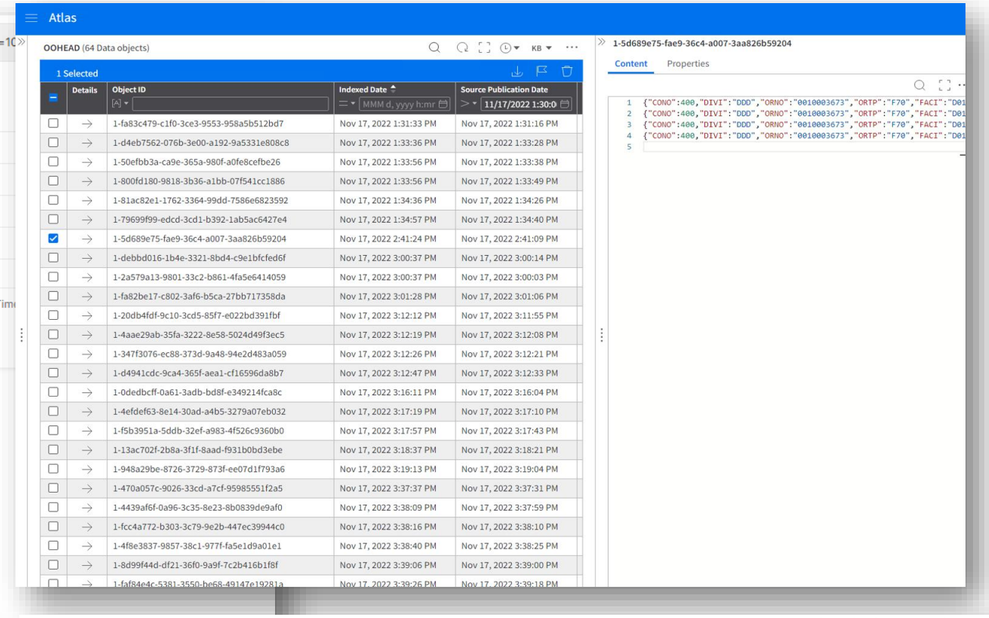
Tool capable of using a JDBC driver to retrieve ***structured*** data. Potentially a bit slow.

Data Lake API Egress

API call retrieving unstructured data

Data Lake API
Unstructured data





Data Lake Storage & Management 1.0 OAS 3.0

Retrieve Retrieve data objects stored in Data Lake

GET	`/dataobjects`	List data object properties using a filter.
GET	`/dataobjects/{id}`	Retrieve payload based on id from datalake
GET	`/dataobjects/splitquery`	Split a demanding filter (producing more than 10K results) into several sm producing the same final result (up to 9500 results per one filter).
GET	`/dataobjects/byfilter`	Stream data objects as a multipart stream, using a filter.

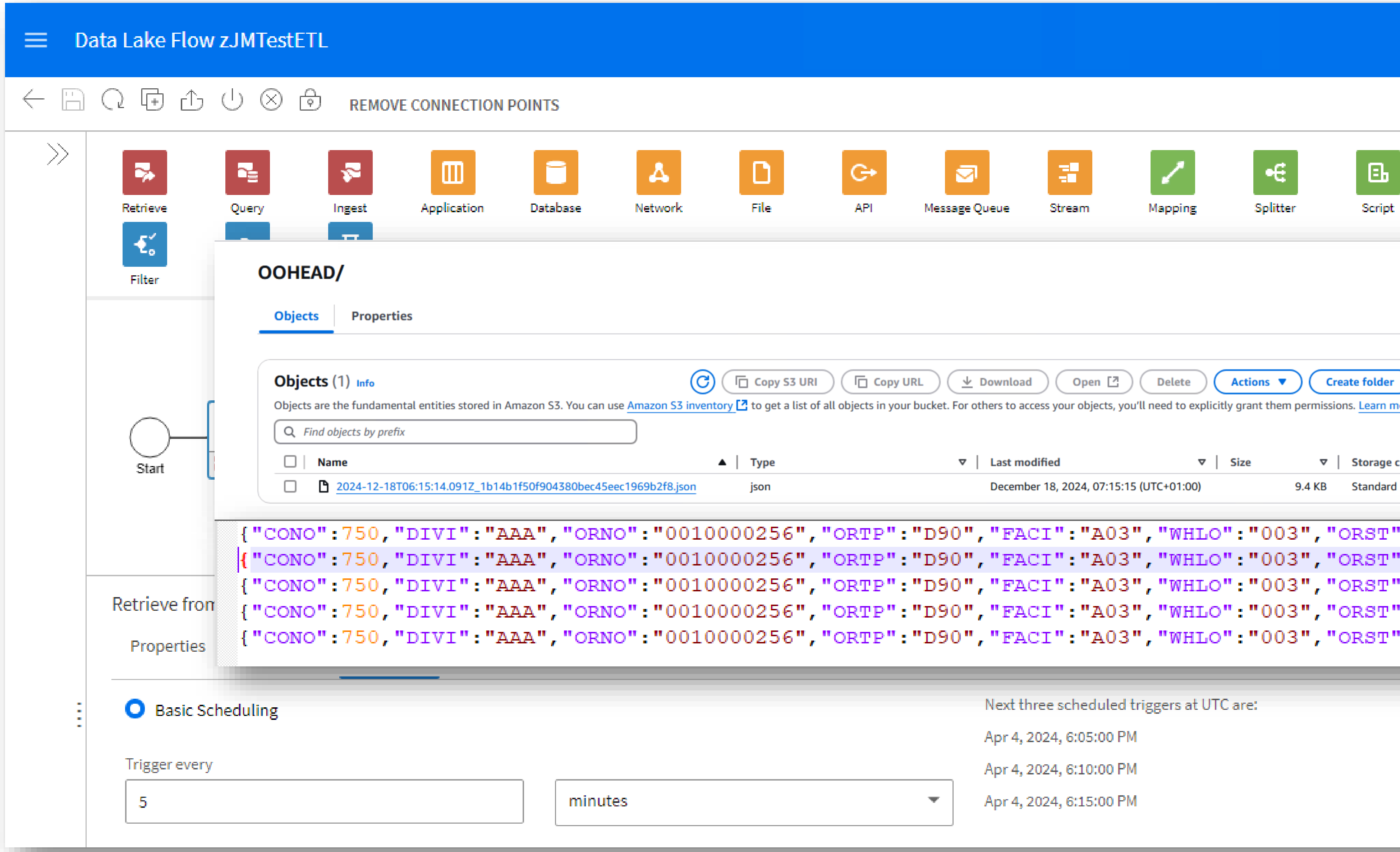
Data Lake Egress

Data Lake Flow in ION

Data Lake API
Unstructured data

Sends unstructured data from Data Lake

- Scheduled
- Sends via ION Connection point



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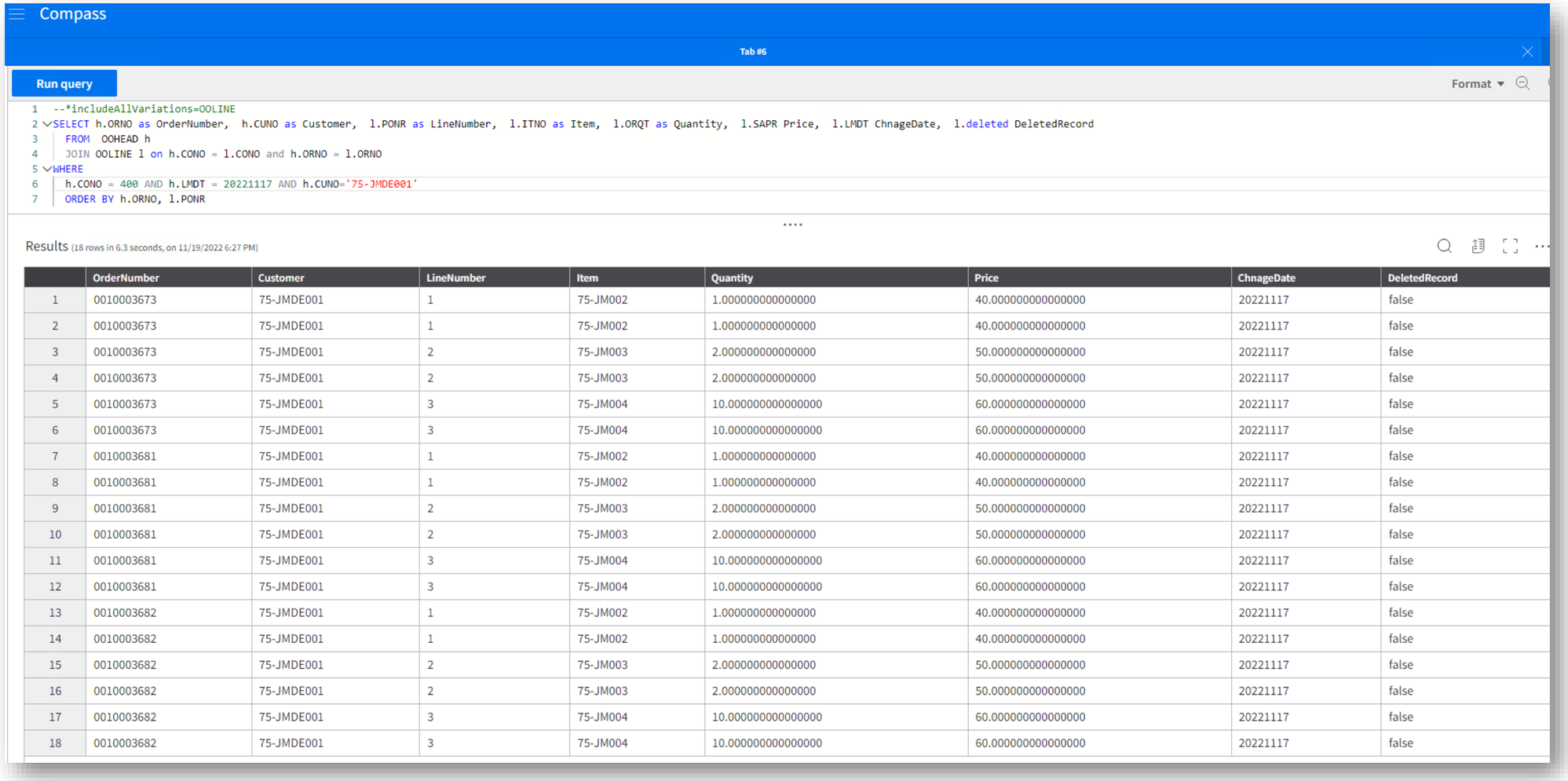
Data Lake Egress

SQL possibility for testing purposes

Compass Editor
Structured data

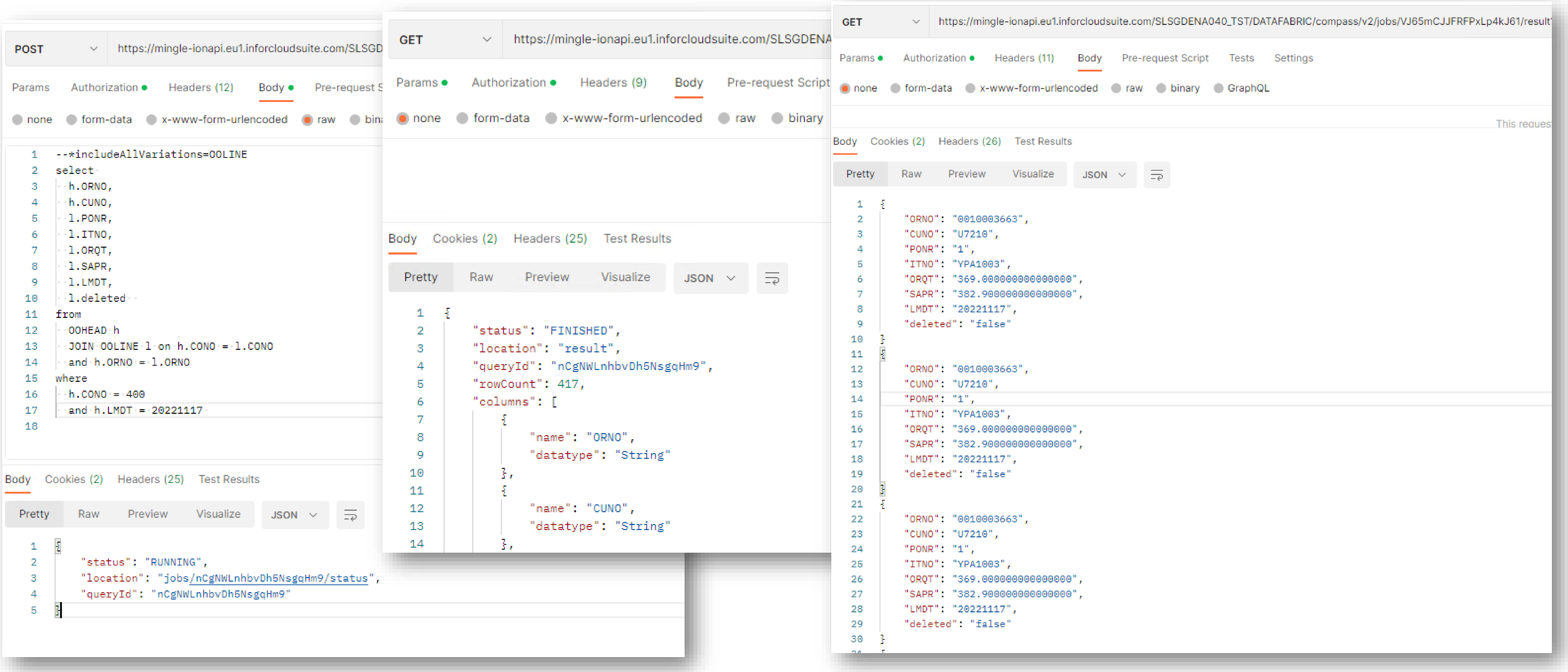


	OrderNumber	Customer	LineNumber	Item	Quantity	Price	ChnageDate	DeletedRecord
1	0010003673	75-JMDE001	1	75-JM002	1.000000000000000	40.000000000000000	20221117	false
2	0010003673	75-JMDE001	1	75-JM002	1.000000000000000	40.000000000000000	20221117	false
3	0010003673	75-JMDE001	2	75-JM003	2.000000000000000	50.000000000000000	20221117	false
4	0010003673	75-JMDE001	2	75-JM003	2.000000000000000	50.000000000000000	20221117	false
5	0010003673	75-JMDE001	3	75-JM004	10.000000000000000	60.000000000000000	20221117	false
6	0010003673	75-JMDE001	3	75-JM004	10.000000000000000	60.000000000000000	20221117	false
7	0010003681	75-JMDE001	1	75-JM002	1.000000000000000	40.000000000000000	20221117	false
8	0010003681	75-JMDE001	1	75-JM002	1.000000000000000	40.000000000000000	20221117	false
9	0010003681	75-JMDE001	2	75-JM003	2.000000000000000	50.000000000000000	20221117	false
10	0010003681	75-JMDE001	2	75-JM003	2.000000000000000	50.000000000000000	20221117	false
11	0010003681	75-JMDE001	3	75-JM004	10.000000000000000	60.000000000000000	20221117	false
12	0010003681	75-JMDE001	3	75-JM004	10.000000000000000	60.000000000000000	20221117	false
13	0010003682	75-JMDE001	1	75-JM002	1.000000000000000	40.000000000000000	20221117	false
14	0010003682	75-JMDE001	1	75-JM002	1.000000000000000	40.000000000000000	20221117	false
15	0010003682	75-JMDE001	2	75-JM003	2.000000000000000	50.000000000000000	20221117	false
16	0010003682	75-JMDE001	2	75-JM003	2.000000000000000	50.000000000000000	20221117	false
17	0010003682	75-JMDE001	3	75-JM004	10.000000000000000	60.000000000000000	20221117	false
18	0010003682	75-JMDE001	3	75-JM004	10.000000000000000	60.000000000000000	20221117	false

Data Lake Compass API Egress

SQL REST API call

Compass APIs
Structured data

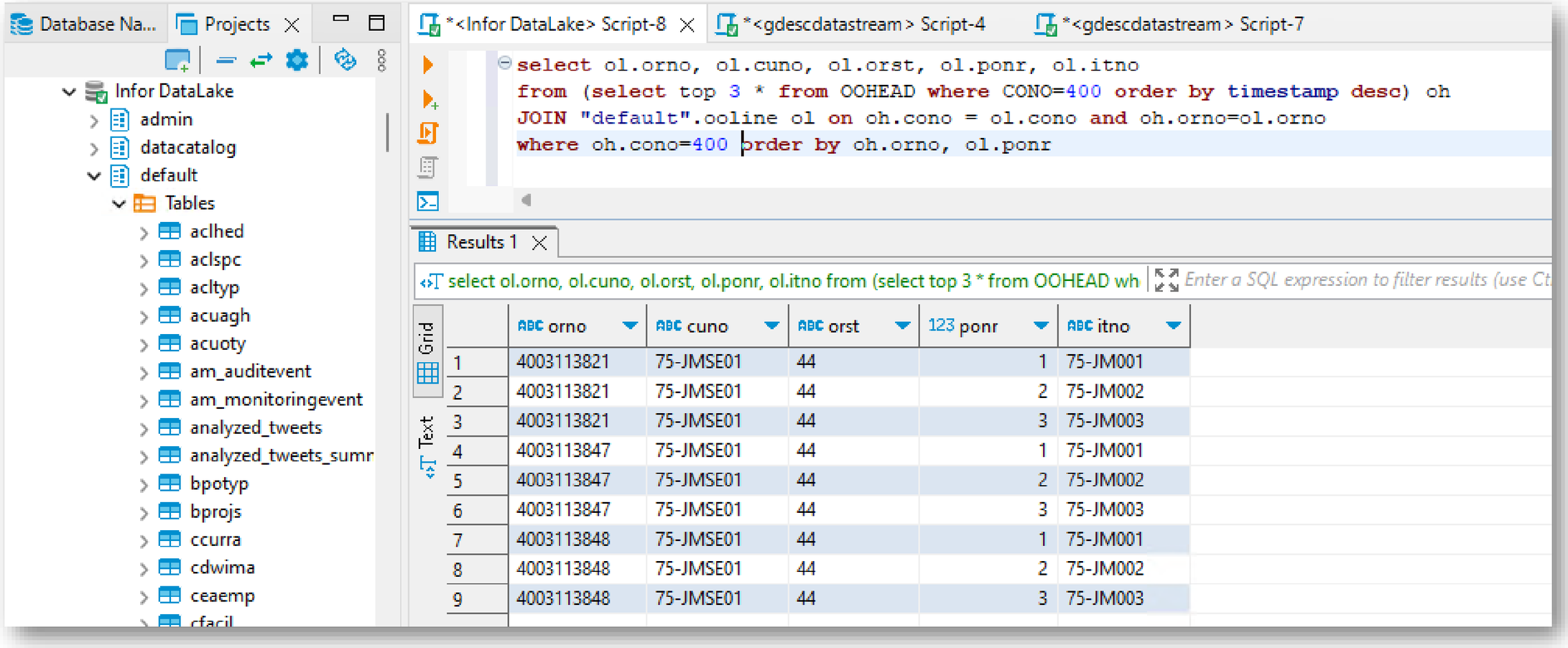


[*Variation handling and query hints*]()

Data Lake Compass API Egress

SQL query using the JDBC driver

Compass JDBC
Structured data



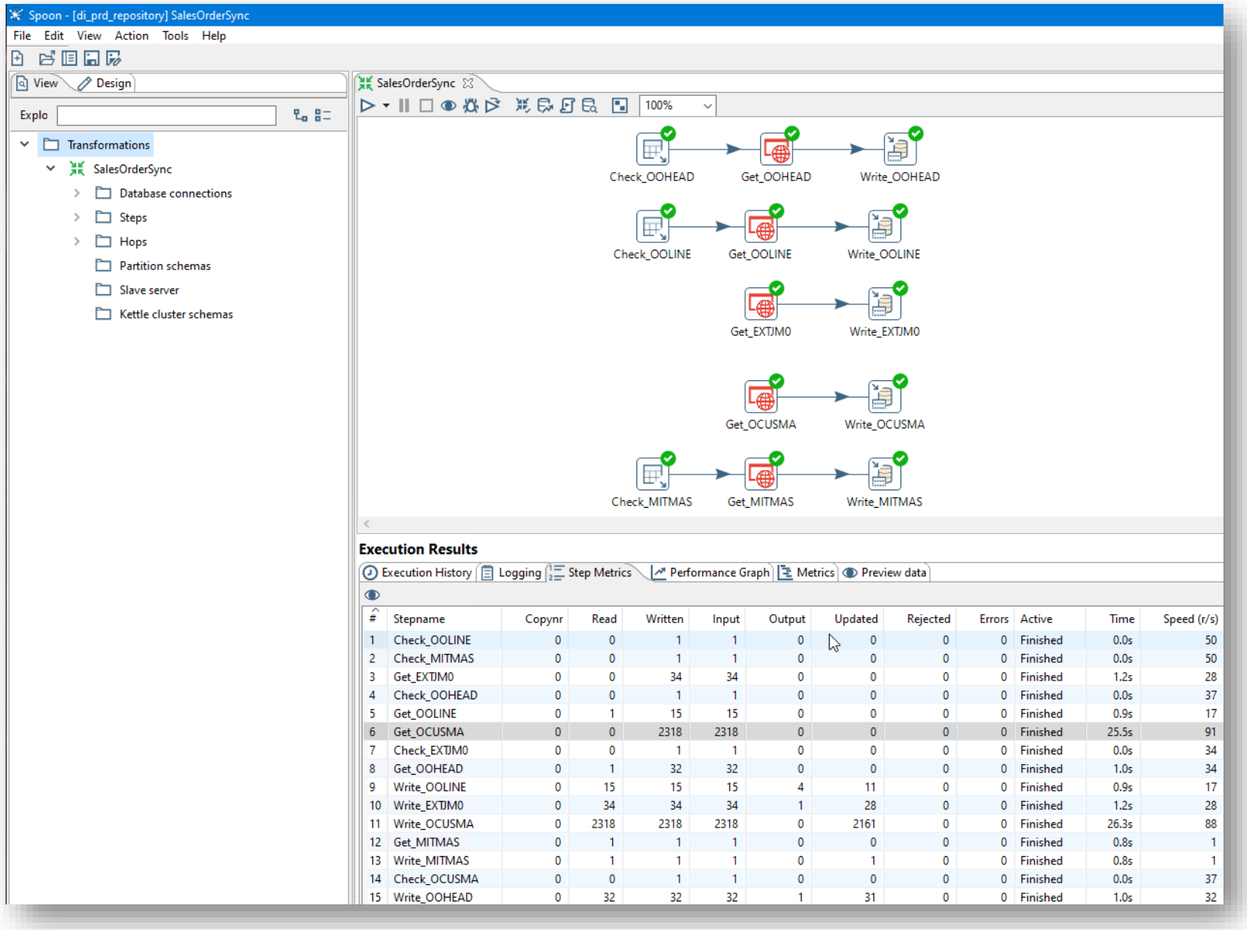
Infor OS Service Limits

Service	Add-on Resource	Infor OS Essentials	Infor OS Professional	Infor OS Enterprise	TECH LM Resource Unit
User Management	SSO	15,000	75,000	510,000	Logins per day
Integration	Processing Capacity	350	3,500	35,000	MB per day
Scripting	Scripting Time	50	500	3,000	Minutes per day
API Gateway	API Executions	250,000	1,250,000	6,250,000	Executions per day
Document Management	Document Output	15,000	75,000	300,000	Documents per day
Data Fabric	Compass Compute Time	20	100	500	Minutes per day
Storage Capacity	Non DB Storage	2	4	8	TB per contract
Cloud Egress	Transferred out of CloudSuite	3	6	12	TB per year
Streaming Ingestion	Ingestion	6	12	24	GB per day
Artificial Intelligence	Training Time	240	1,920	5,760	Minutes per month
Digital Assistant	Skill Executions	100	500	1,500	Executions per day
Application Development	Runtime User	400	1,600	6,000	Concurrent User

https://os.infor.com/usagelimits

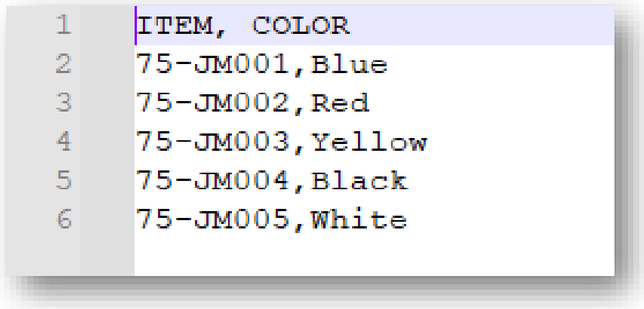
Infor ETL Tool

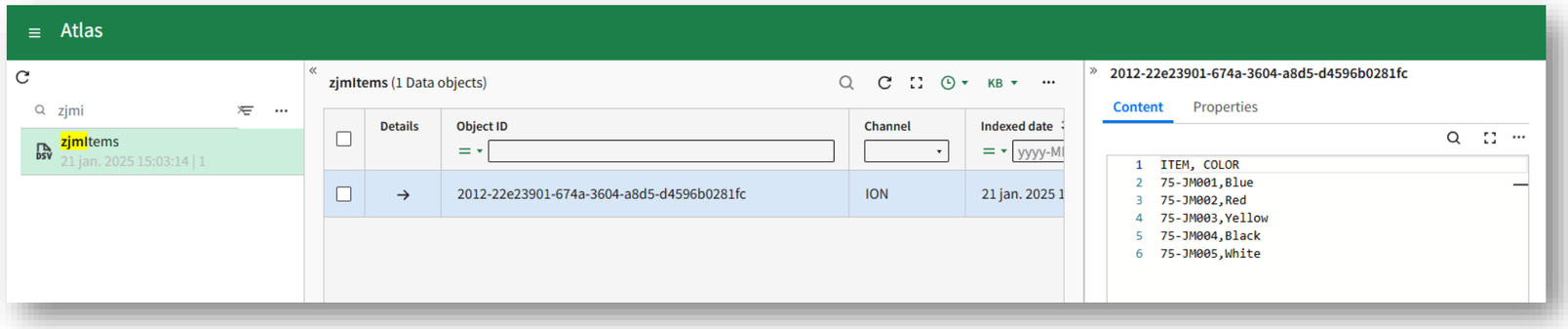
- Connect to Data Lake using ION API credentials
- Update/Insert or “UpSert” into the local database
- Specify Columns and “where clause” to extract
  - Most common – delta changes based on date/time last processed
- Local database drivers include
  - AS400, Infobright, MariaDB, MySql, MSSQLServer, PostgreSQL, Generic (JDBC ODBC), Oracle
  - Cloud as well as on-premise
  - ~40 more databases available via JDBC

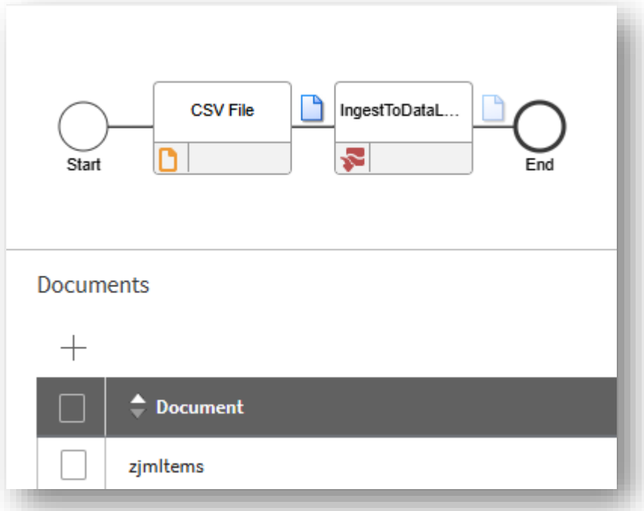


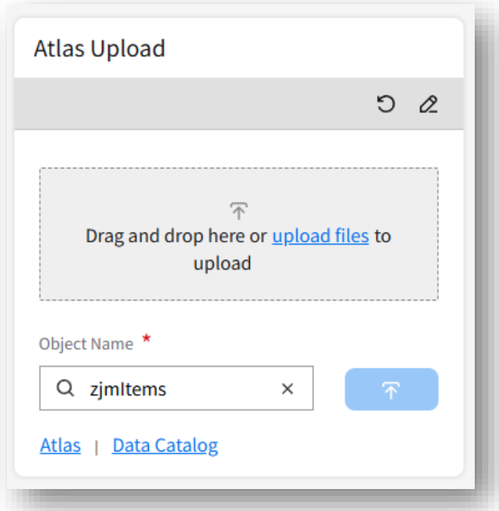
#	Stepname	Copynr	Read	Written	Input	Output	Updated	Rejected	Errors	Active	Time	Speed (r/s)
1	Check_OOLINE	0	0	1	1	0	0	0	0	Finished	0.0s	50
2	Check_MITMAS	0	0	1	1	0	0	0	0	Finished	0.0s	50
3	Get_EXTJM0	0	0	34	34	0	0	0	0	Finished	1.2s	28
4	Check_OOHEAD	0	0	1	1	0	0	0	0	Finished	0.0s	37
5	Get_OOLINE	0	1	15	15	0	0	0	0	Finished	0.9s	17
6	Get_OCUSMA	0	0	2318	2318	0	0	0	0	Finished	25.5s	91
7	Check_EXTJM0	0	0	1	1	0	0	0	0	Finished	0.0s	34
8	Get_OOHEAD	0	1	32	32	0	0	0	0	Finished	1.0s	34
9	Write_OOLINE	0	15	15	15	4	11	0	0	Finished	0.9s	17
10	Write_EXTJM0	0	34	34	34	1	28	0	0	Finished	1.2s	28
11	Write_OCUSMA	0	2318	2318	2318	0	2161	0	0	Finished	26.3s	88
12	Get_MITMAS	0	1	1	1	0	0	0	0	Finished	0.8s	1
13	Write_MITMAS	0	1	1	1	0	1	0	0	Finished	0.8s	1
14	Check_OCUSMA	0	0	1	1	0	0	0	0	Finished	0.0s	37
15	Write_OOHEAD	0	32	32	32	1	31	0	0	Finished	1.0s	32

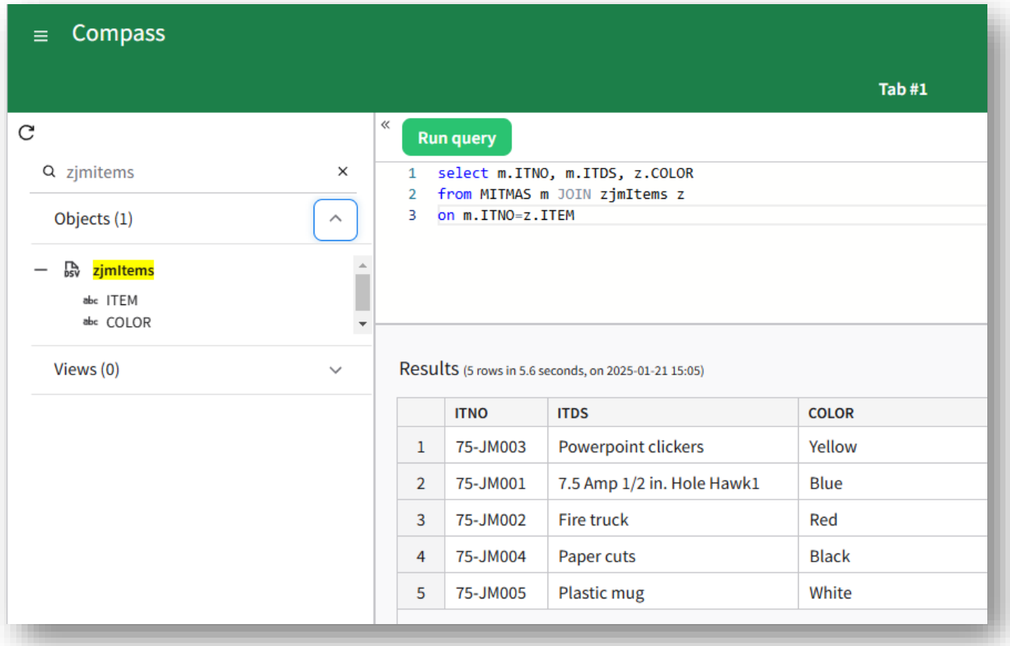
Ingest external data



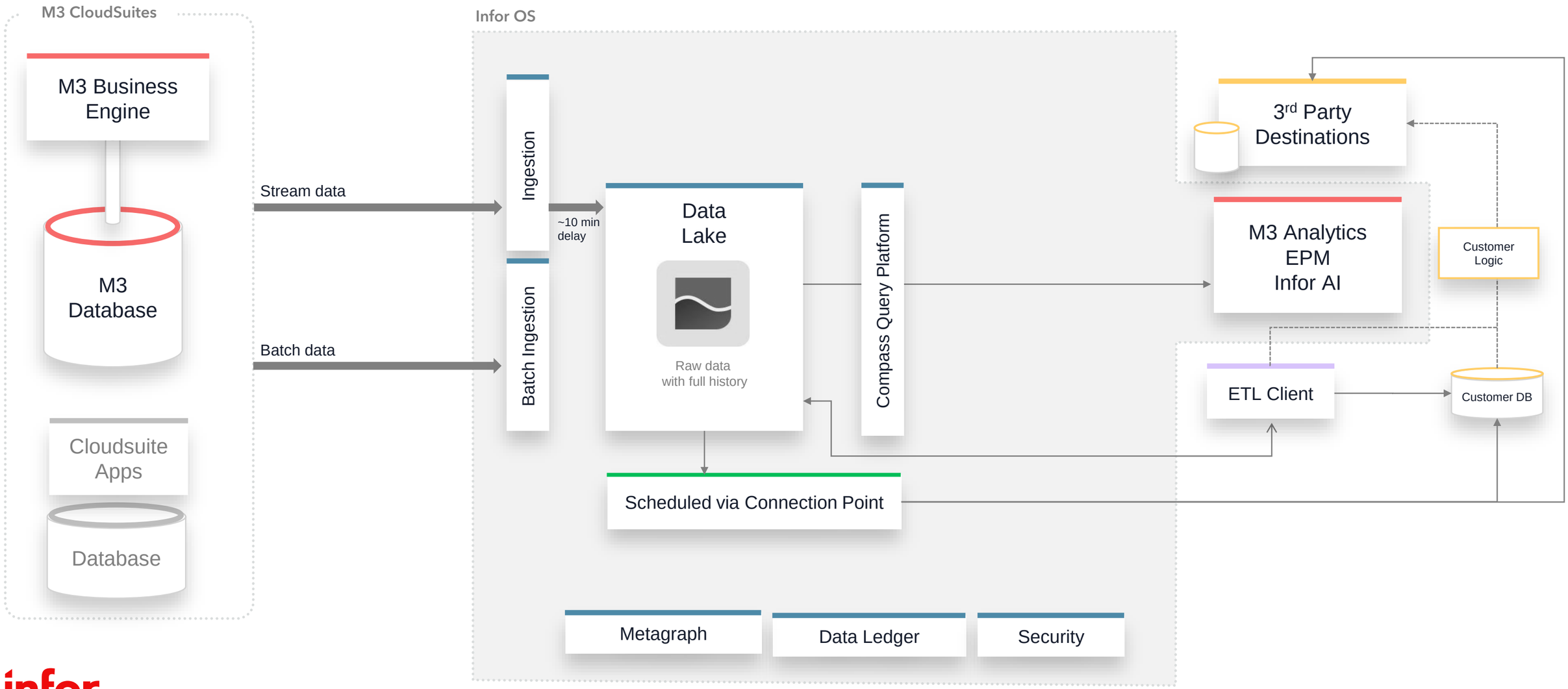




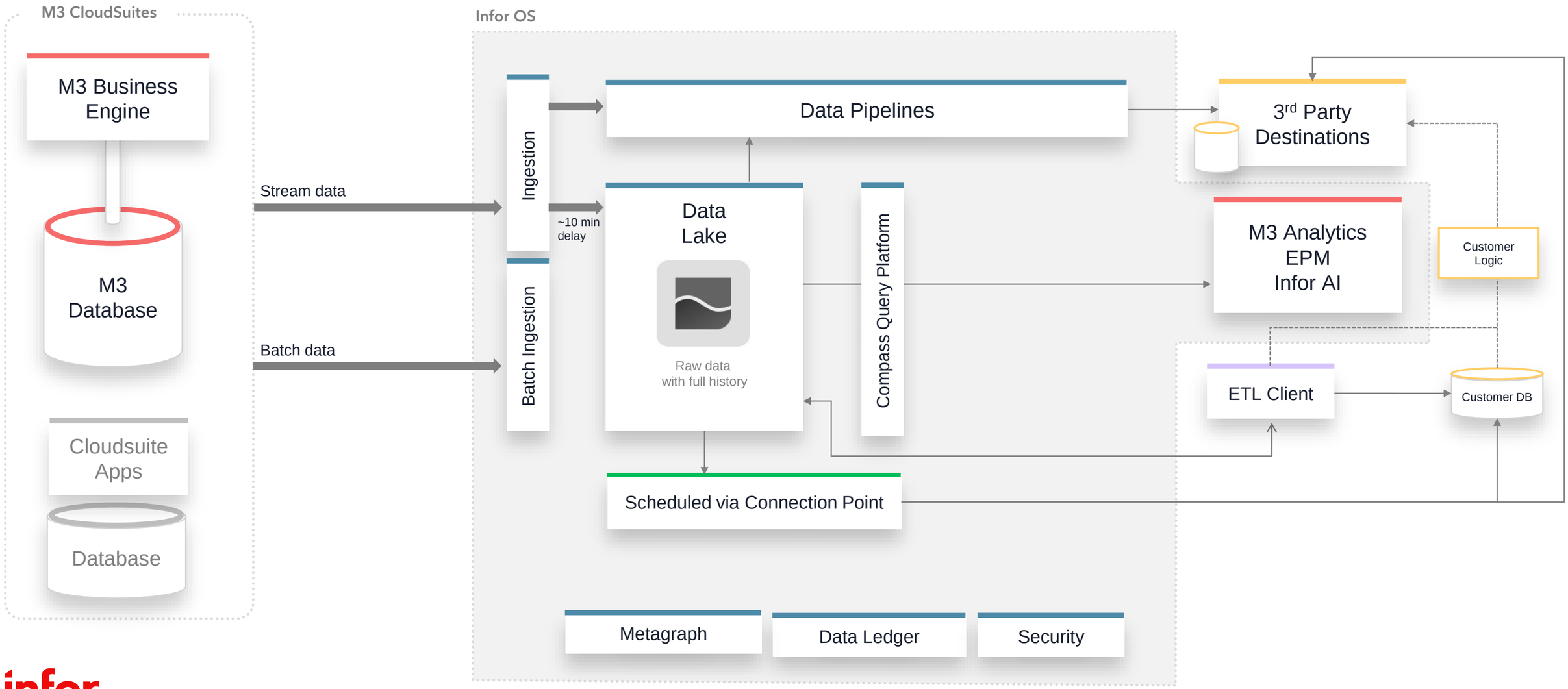




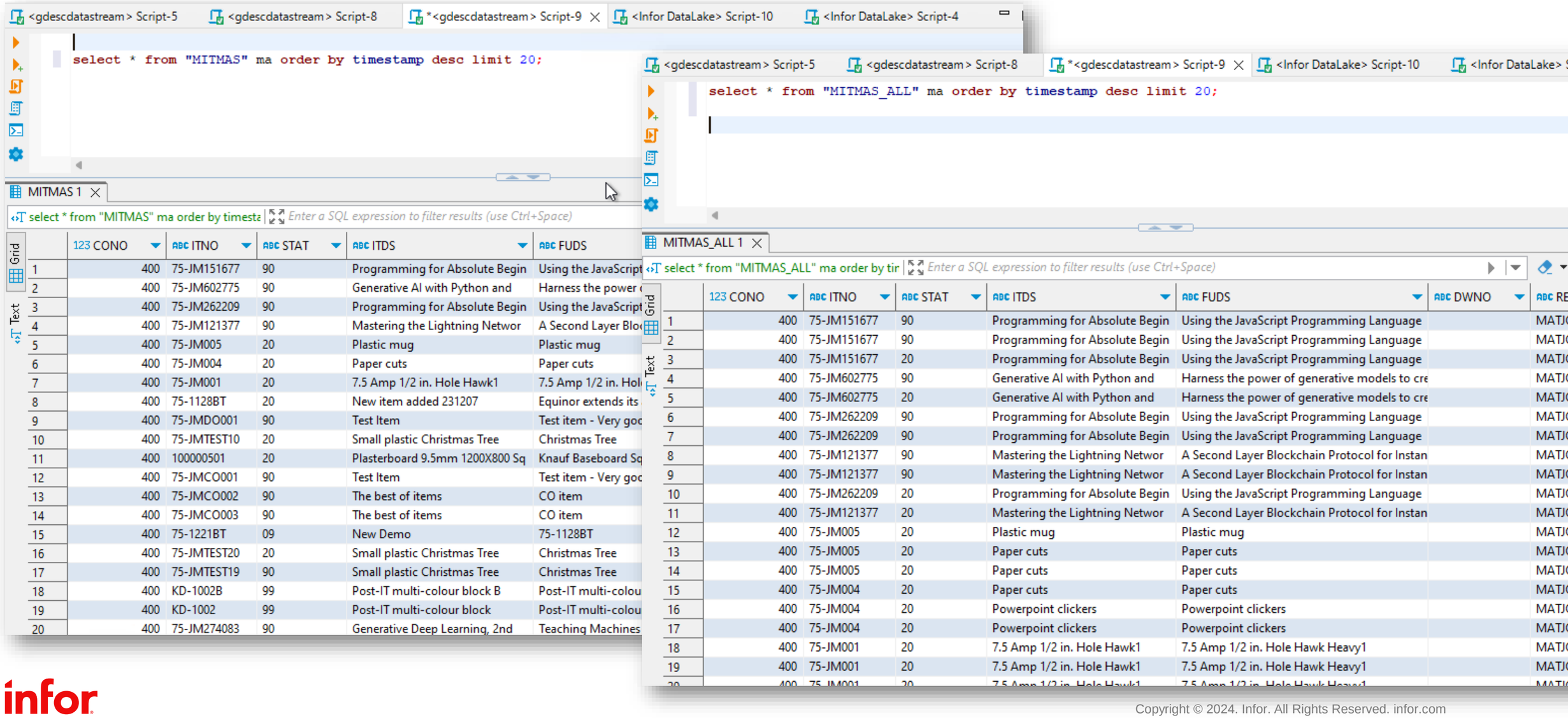
M3 and Data Fabric



M3 and Data Fabric



Streaming example



Data Pipelines – Destinations

Pipelines enables fast data delivery to various technologies, relational databases, analytics warehouses, streaming platforms and storage locations.

The Destinations component is used for defining and managing the connection to these locations where Stream Pipelines can offload data in real-time processing.

Amazon Aurora PostgreSQL

Azure Database for PostgreSQL

Snowflake

Full disclaimer

**Future destination is on roadmap*

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Pipelines enables fast data delivery to various technologies, relational databases, analytics warehouses, streaming platforms and storage locations.

The Destinations component is used for defining and managing the connection to these locations where Stream Pipelines can offload data in real-time processing.

Amazon Aurora PostgreSQL

Azure Database for PostgreSQL

Snowflake

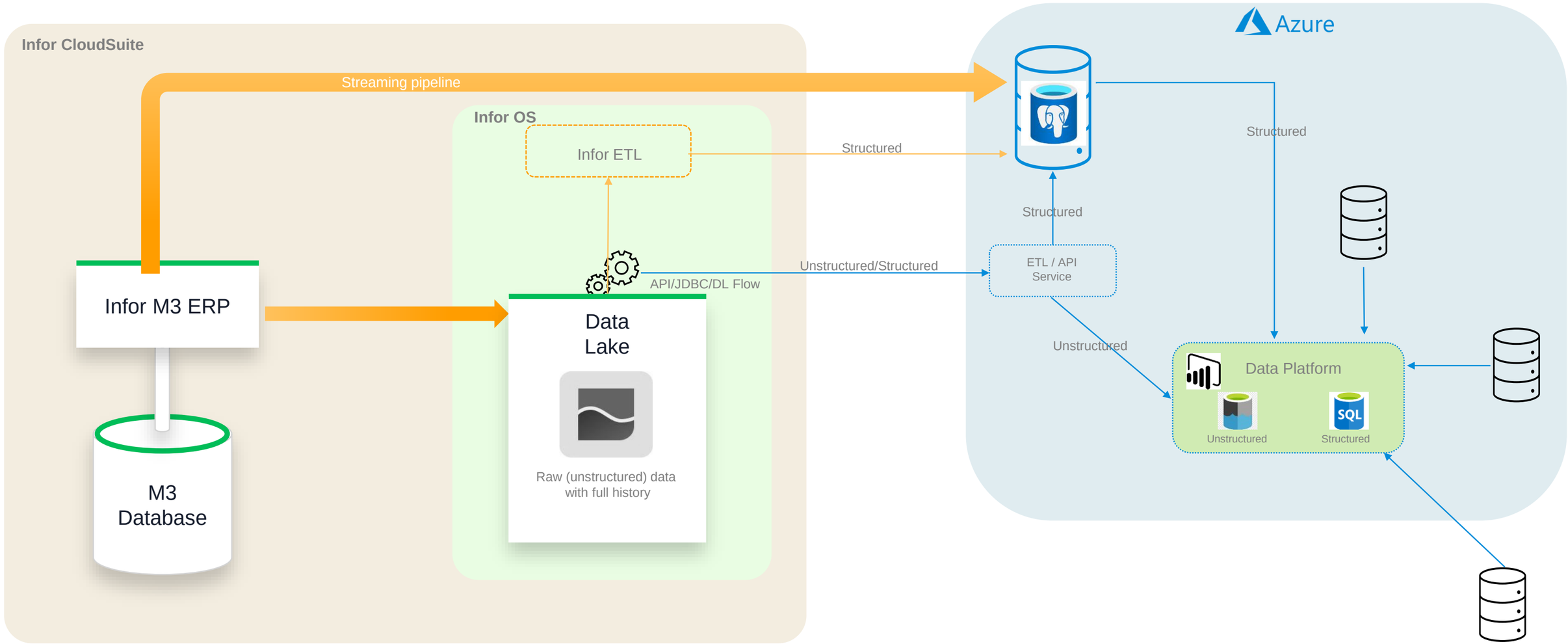
Amazon RDS SQL Server and Azure SQL*

Amazon Redshift*

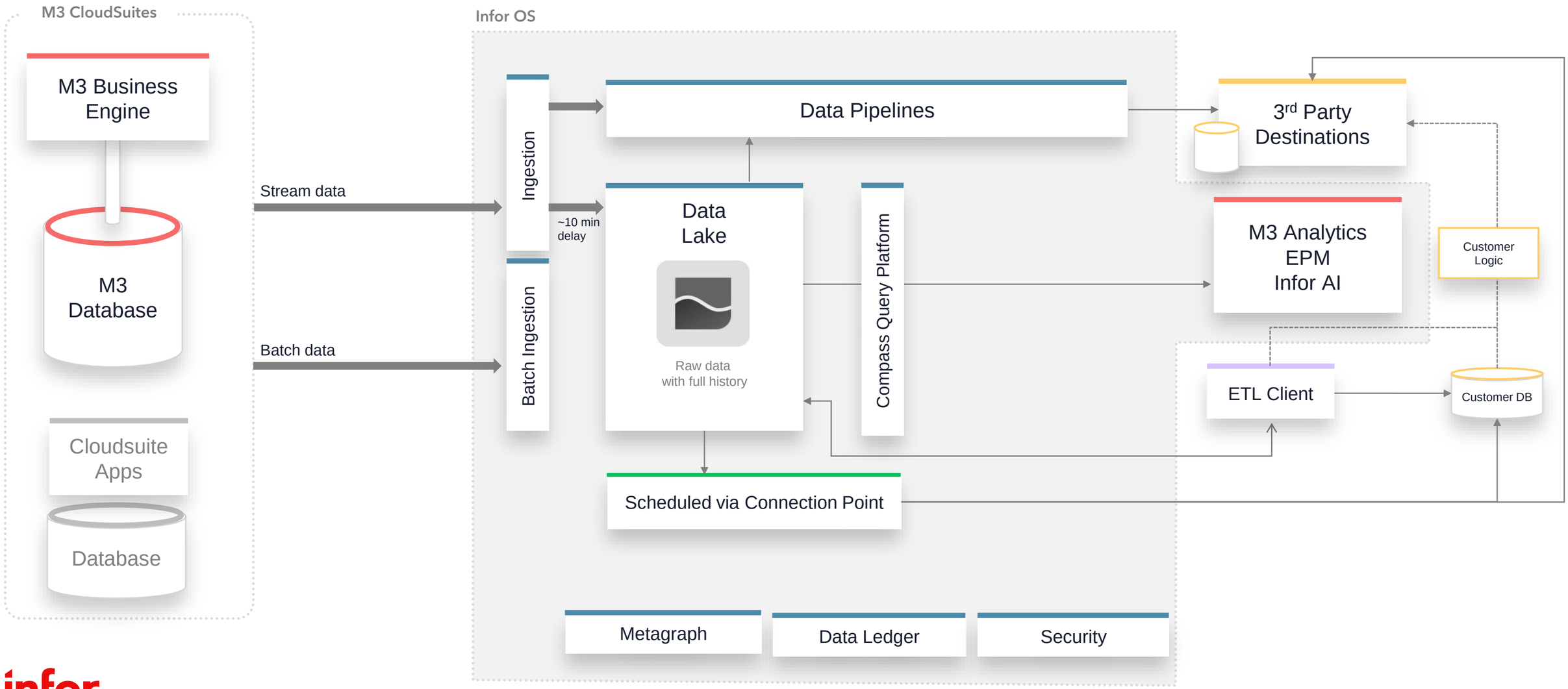
Streaming platforms*

Any storage*

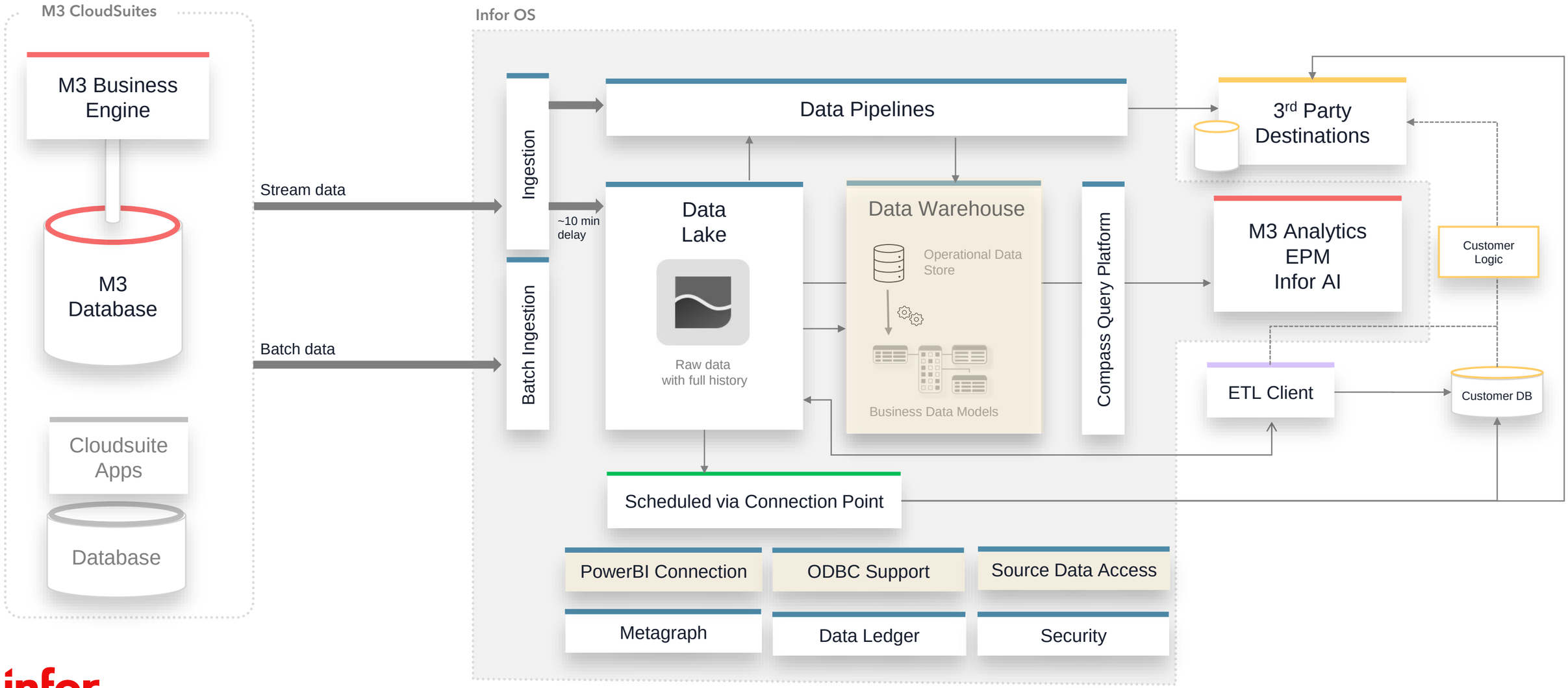
Current state



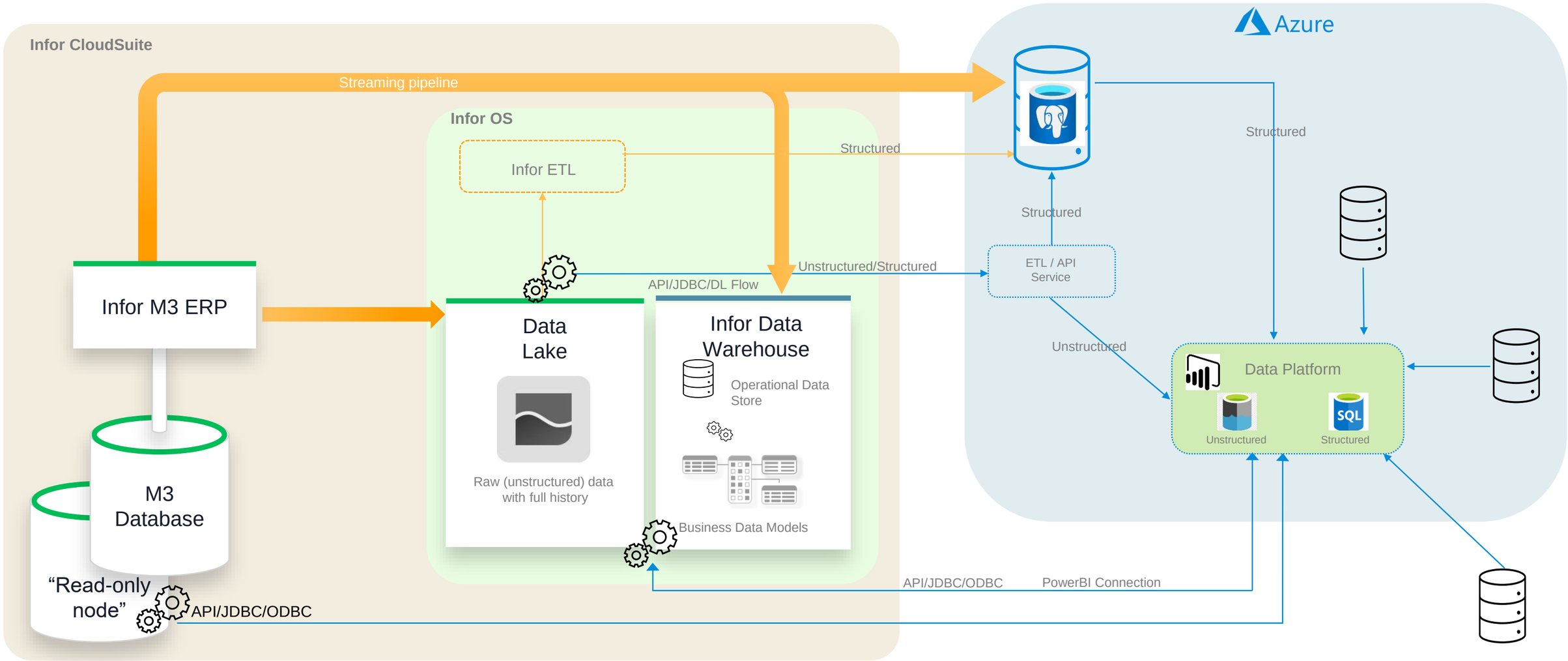
M3 and Data Fabric



M3 and Data Fabric 2025+

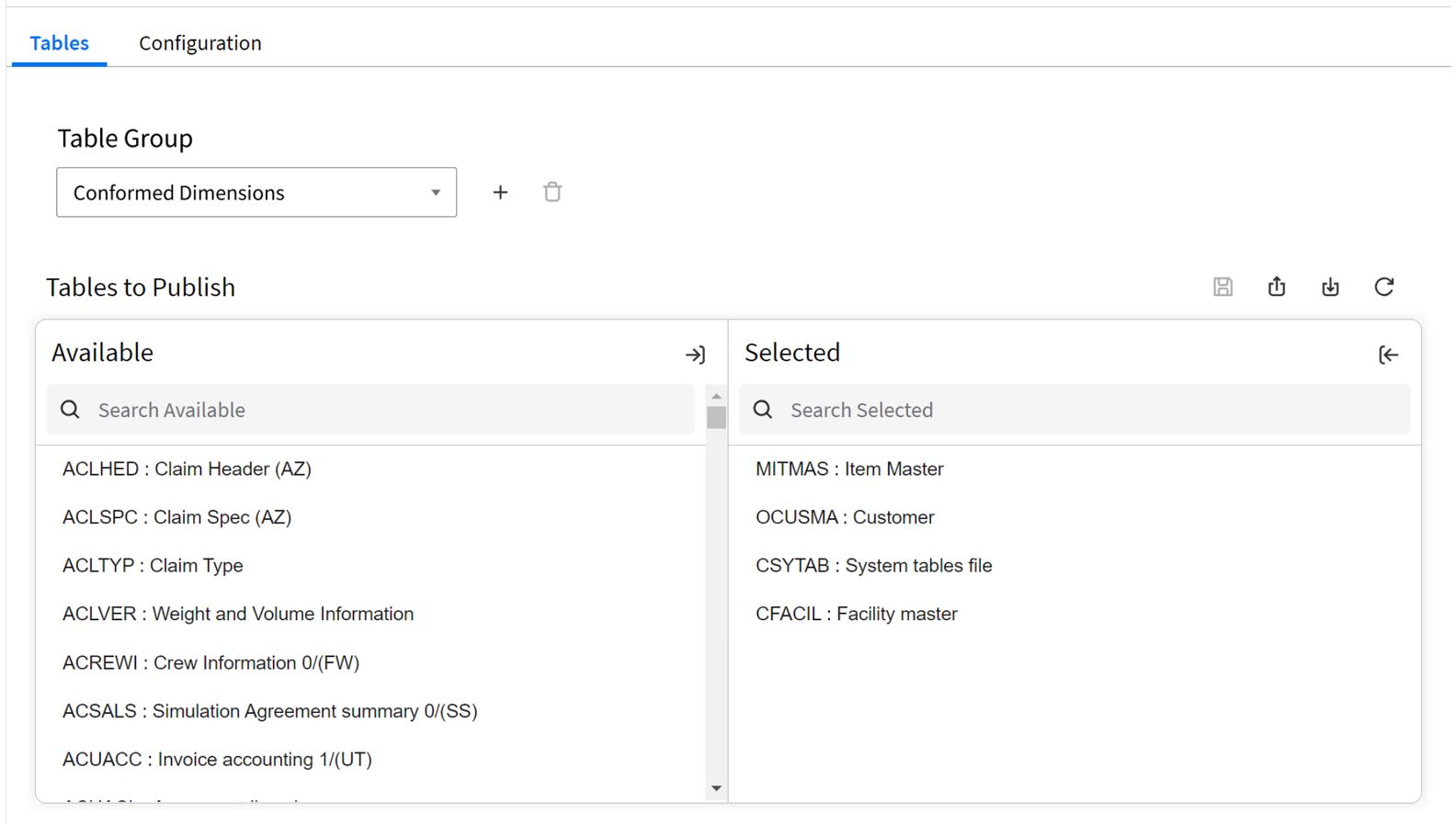


Roadmap items



M3 Data Lake Publisher - Table Groups

Organizing your selections of data to publish



April 2025

Stream Pipelines and Data Lake

- Stream Pipeline destinations: RDS SQL Server / Azure SQL
- Batch time to Data Lake when streaming reduced from 10 to 5 minutes

Compass

- Compass query result 100 < 10 000 rows
- Compass SQL performance optimization for Analytical mode
- Synchronized schema updates across Data Catalog & Compass SQL

Data Ledger

- Data Ledger – refresh multiple mismatches
- Data Ledger enhancements for streaming (M3 and LN not yet adopted)

Data Security Import/Export

Limited availability: Data Warehouse (fka Lakehouse) and Data Orchestrator

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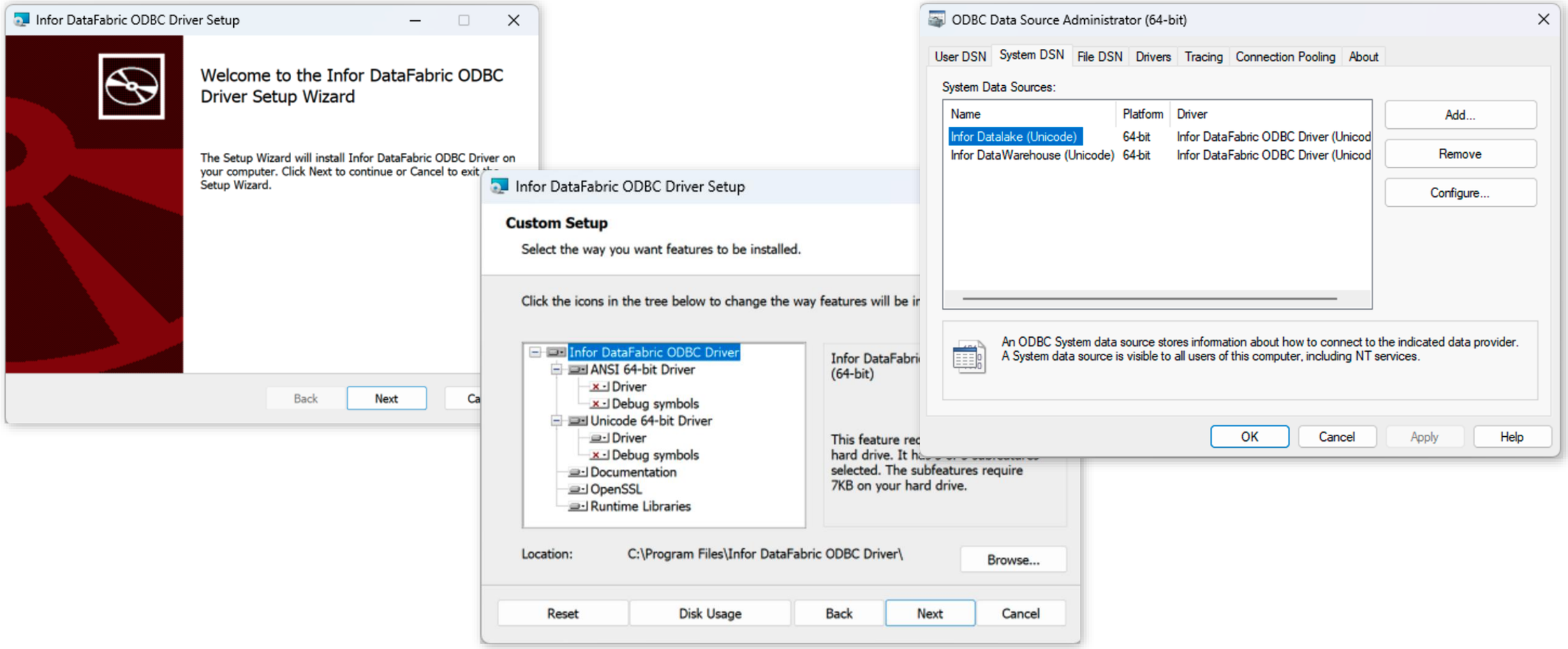
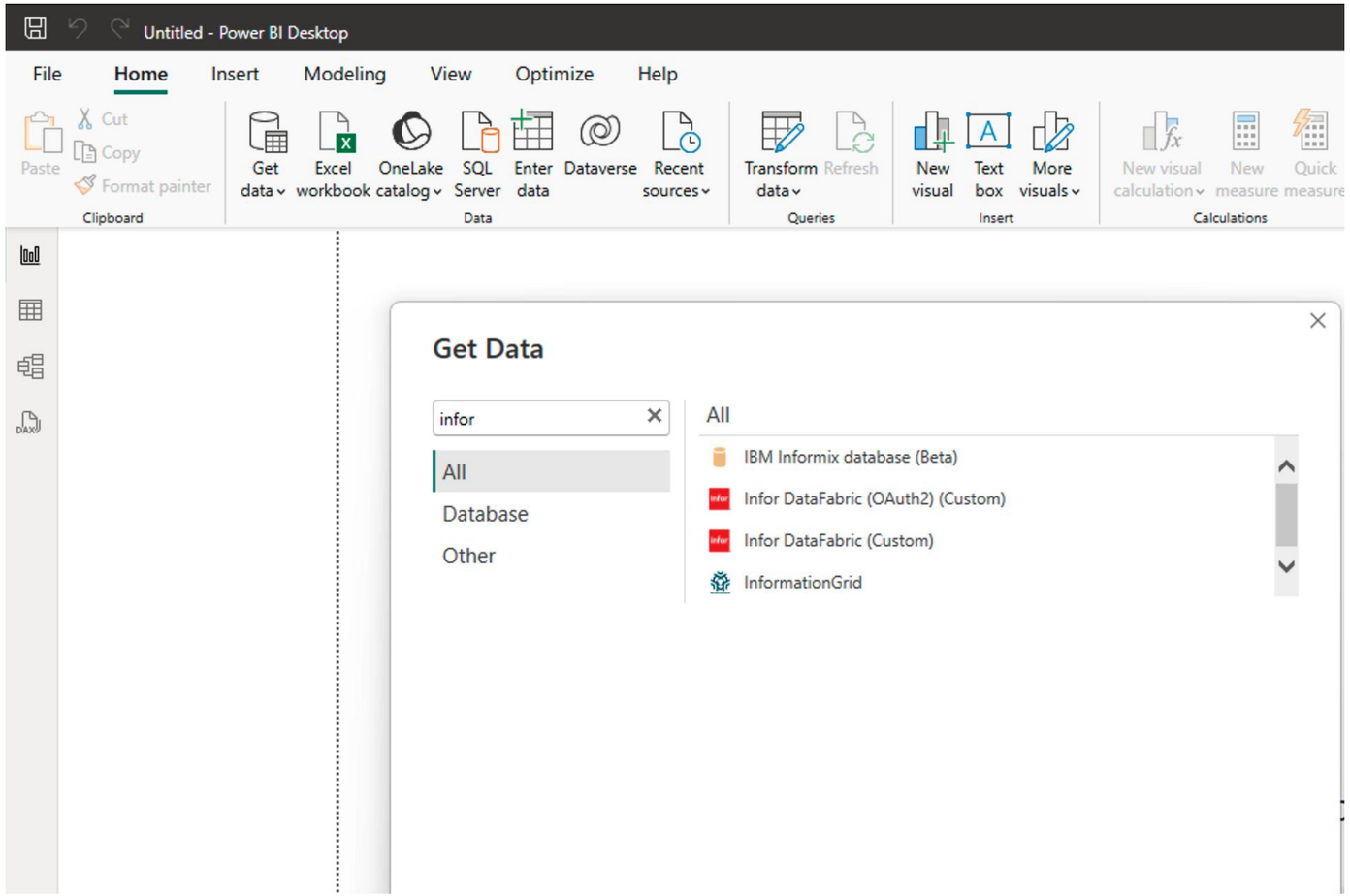
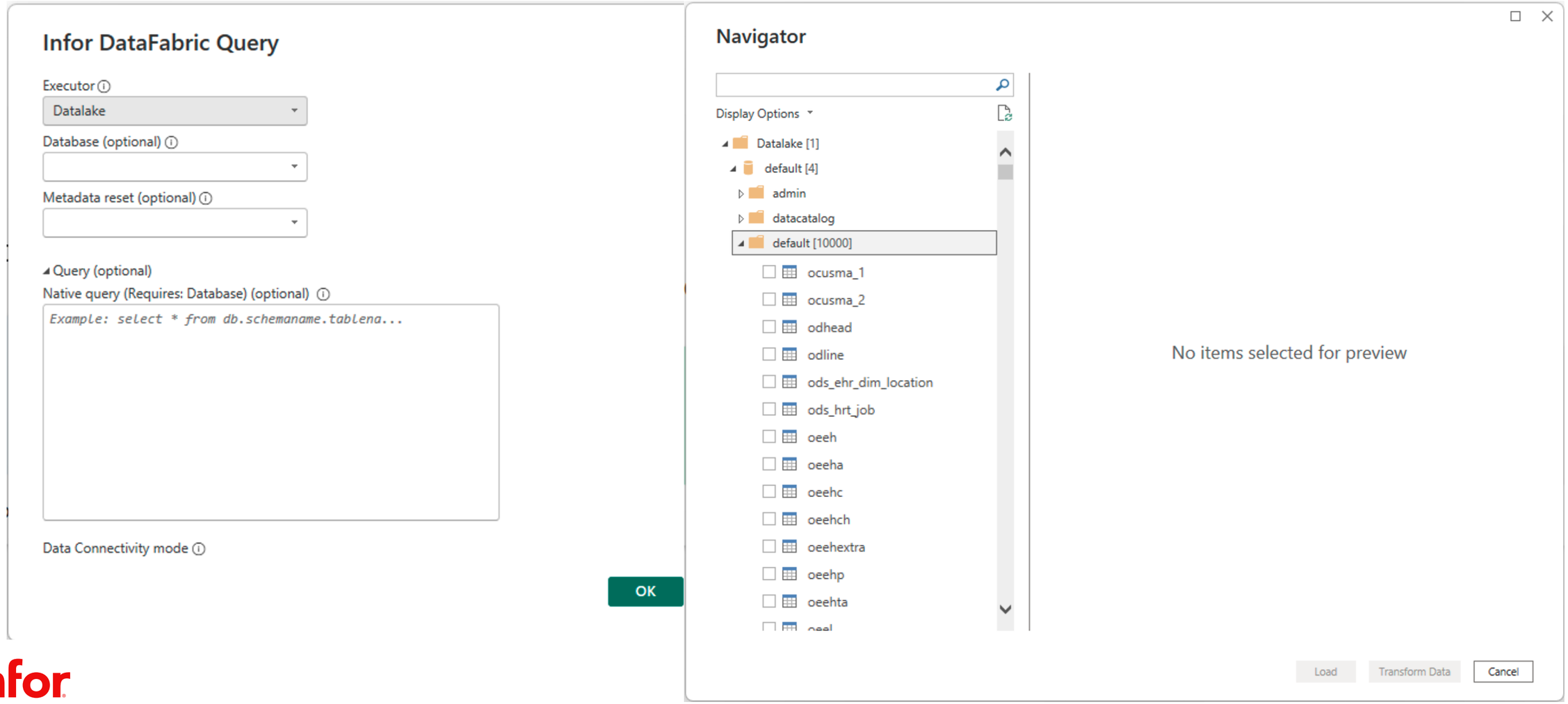
Infor Data Fabric ODBC Driver



MS Power BI Native Connector



MS Power BI Native Connector



MS Power BI Native Connector