Den store teknikkdagen 2025

Infor OS – Data Fabric

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Infor Solution Consulting

2025.02

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Purpose-built solutions

Infor CloudSuite Food & Beverage

Industry-specific applications

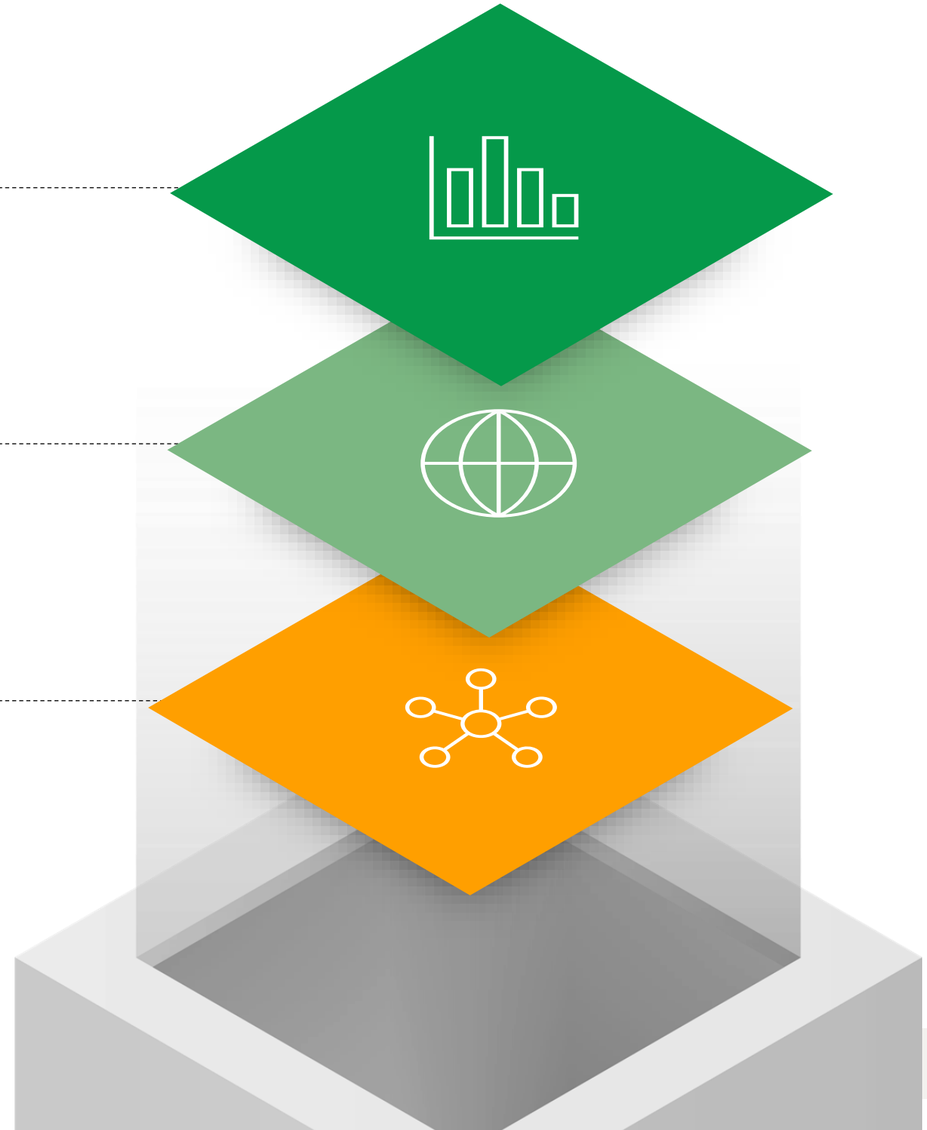
- Fully integrated core ERP suite
- Supporting edge applications i.e. PLM, WMS, CPQ, HCM etc
- Consumer-grade user experience

Digital business platform

- Integration and interoperability
- Common data fabric
- Visualization of data and insights
- Business process automation
- Extensibility for new applications

Multi-tenant cloud infrastructure

- Partnership with AWS global network
- Resilient and scalable architecture
- Secure and compliant protection
- Evergreen innovation and improvement



Infor OS

Included in every CloudSuite

- Single Vendor
- Evergreen solutions
- Reduced Skillset requirements
- Built by Infor using AWS services
- Single Security Model
- Common user experience
- An open architecture

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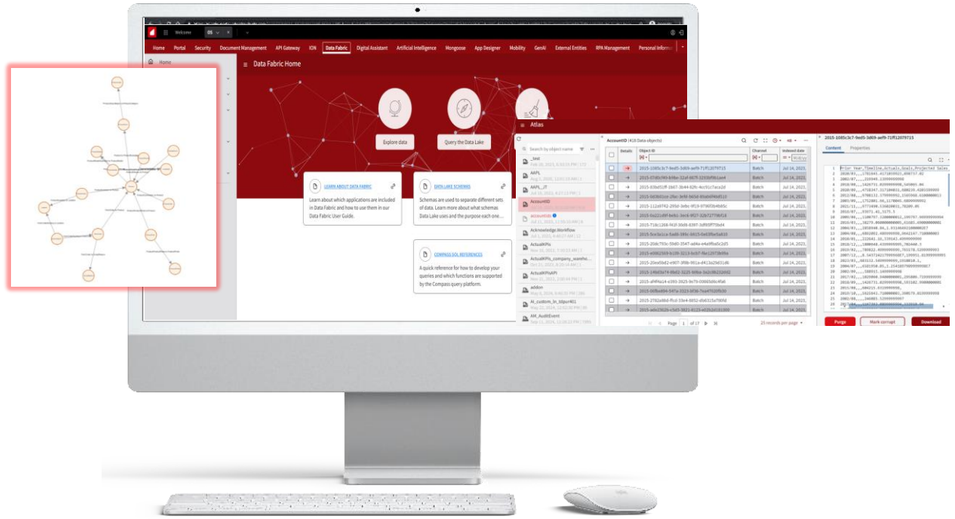
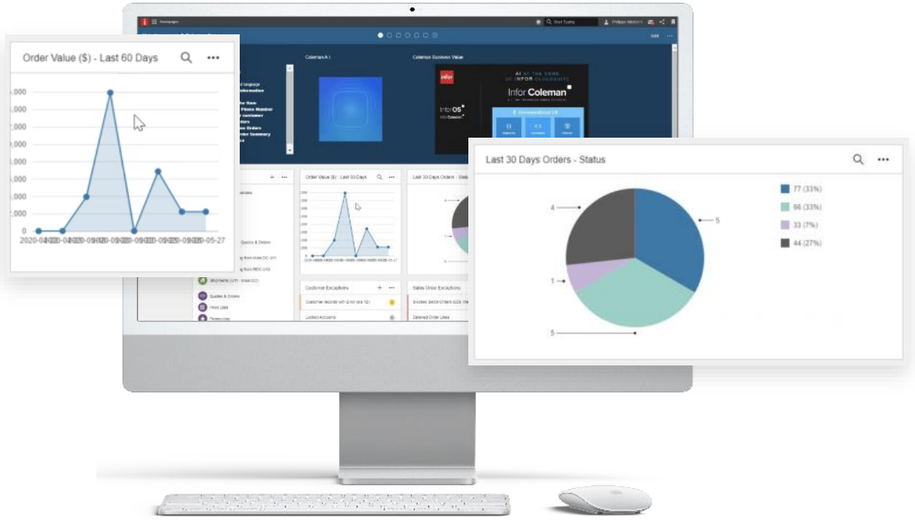
Data (+) Intelligence

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

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My Workspace

Jane Doe

My Day

Thursday, March 23, 2024

Good morning, **John.**

Here is the latest insights digest customized for you.

Employee of 2024- time for nominations!

It's that time of the year. Take a few minutes of your time to nominate a colleague for this award.

Get the details >

On Your Radar

For the week of May 17 - 23

View all | View snooze list

15 Requests missing information	**21** Purchase order confirmations
14 Orders past due	**27** Purchase order mismatches

- **5 Request lines are missing item information**
  1041 - Masrani Corp., WH28 - Main warehouse
  Requestor: Bob Smith — Update
- **1 Request line is missing price information**
  1041 - Masrani Corp., WH28 - Main warehouse
  Requestor: Bob Smith — Update
- **9 Request lines are missing supplier information**
  1041 - Masrani Corp., WH28 - Main warehouse
  Requestor: Bob Smith — Approve

Order Status Healthy

Analytics Dashboard (Birst)

Upcoming Orders

Next 2 weeks

Date	Exceptions	Review
Mon, Apr 17	5/250	
Tue, Apr 18	34/465	

On time delivery this week is **low** with **98%** on track this week vs next.

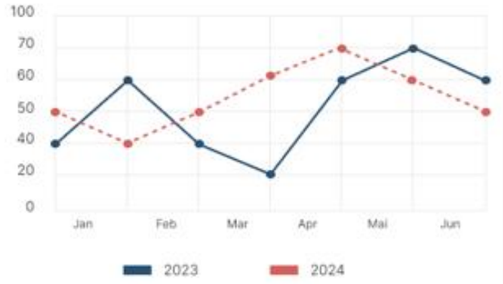
Report generated by Coleman AI

+4.5%	On track	HIGH
15 Requests Missing Info	98% Purchase Orders Fullfilled	8 Past due orders

Unapproved Purchase Orders

Late Receipts

Cycle Time (days)

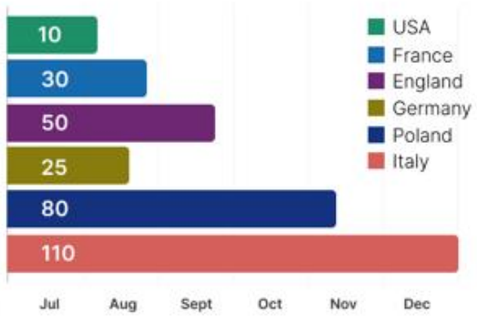


Processes

See what they're doing right

Due to improved execution of their business process **USA location** has **shorter cycle time** compared to other locations.

Procure to Pay Cycle Time by Location



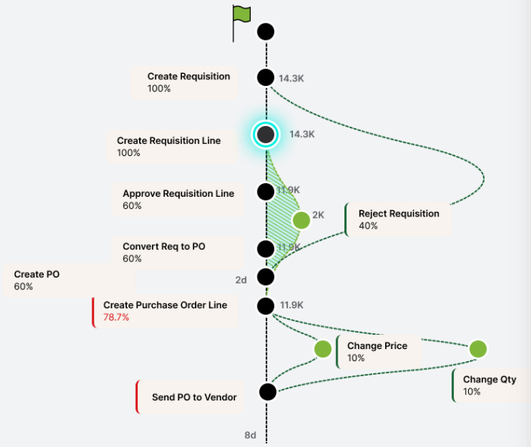
Inbox 200

Search

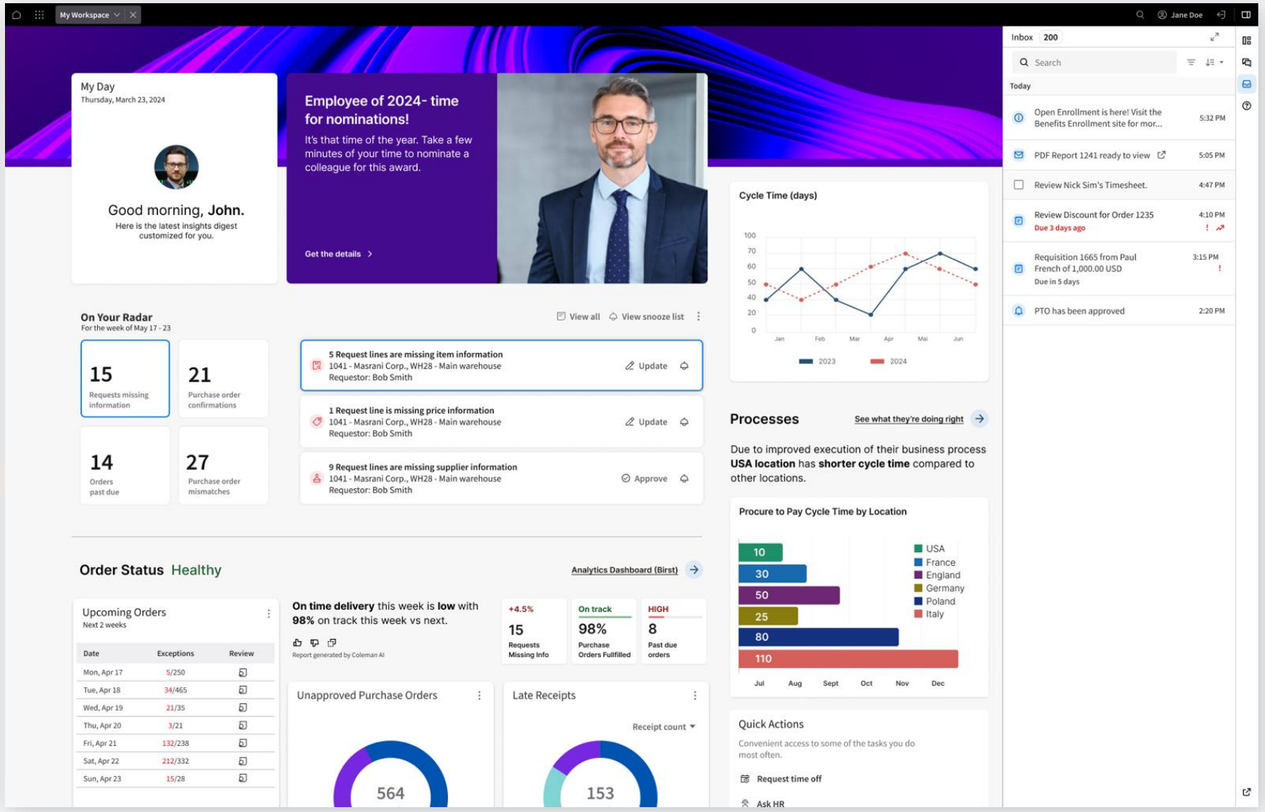
Today

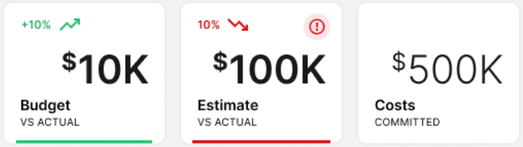
- Open Enrollment is here! Visit the Benefits Enrollment site for mor... 5:32 PM
- PDF Report 1241 ready to view 5:05 PM
- Review Nick Sim's Timesheet. 4:47 PM
- Review Discount for Order 1235 4:10 PM
  Due 3 days ago
- Requisition 1665 from Paul French of 1,000.00 USD 3:15 PM
  Due in 5 days
- PTO has been approved 2:20 PM

AI, BI & PI: Connected intelligence

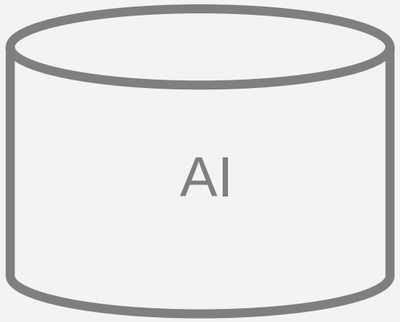


Process Mining





Analytics



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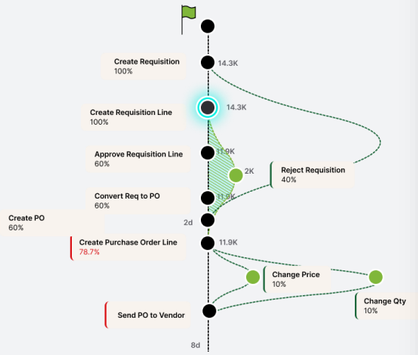
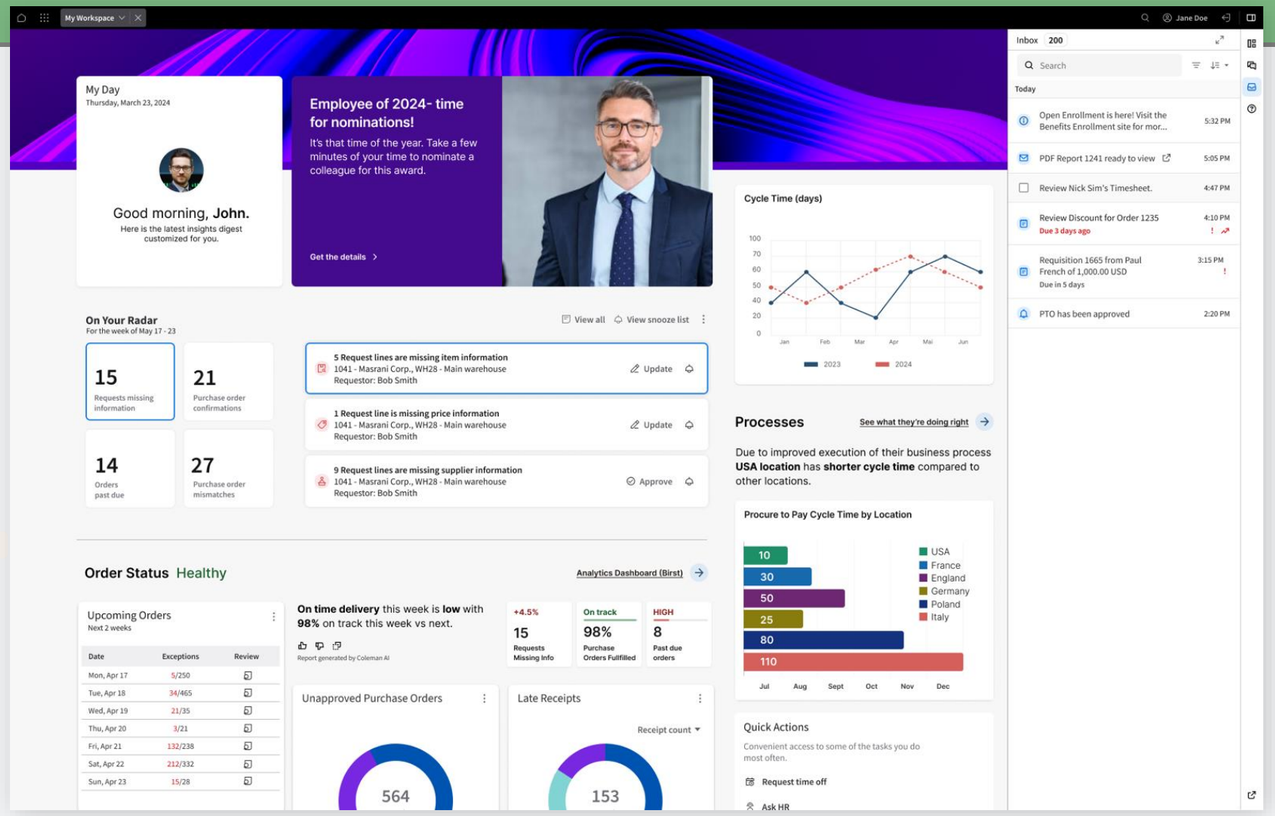
AI, BI & PI: Connected intelligence



Process Mining



Analytics

AI

Enterprise Automation & Data Layer

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Data Management

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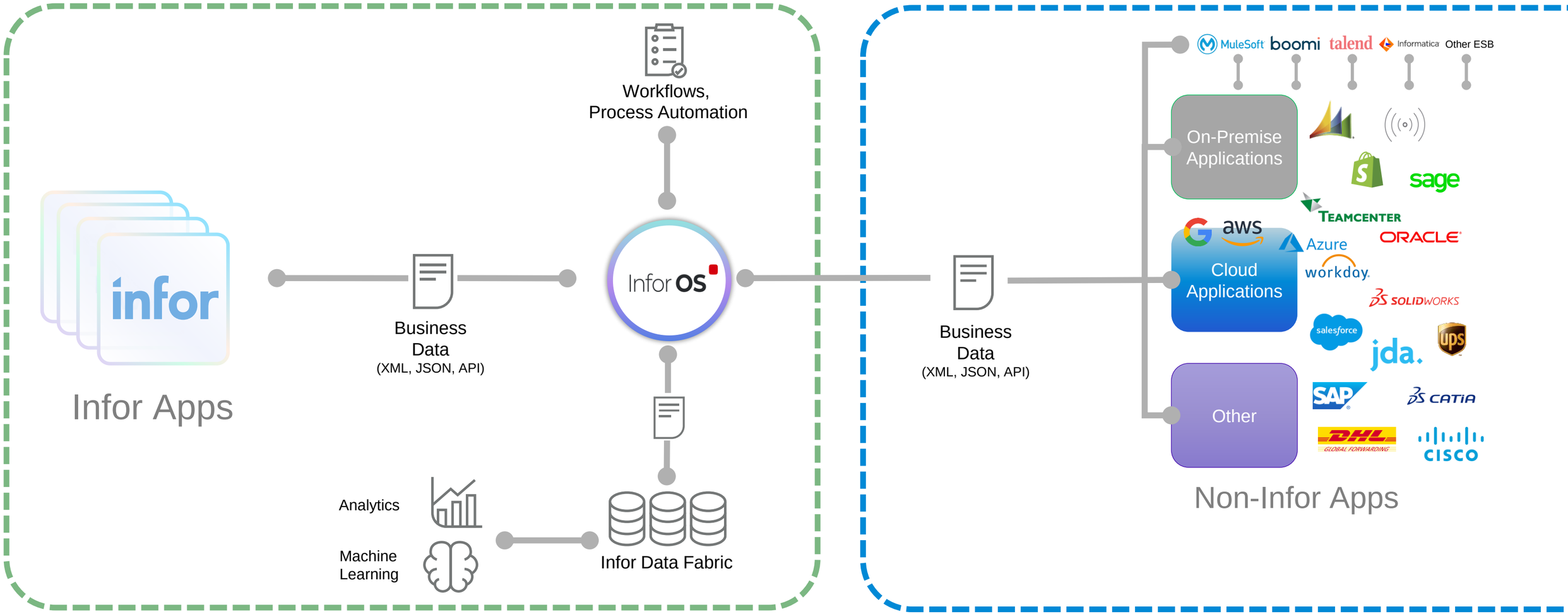
Integration architecture



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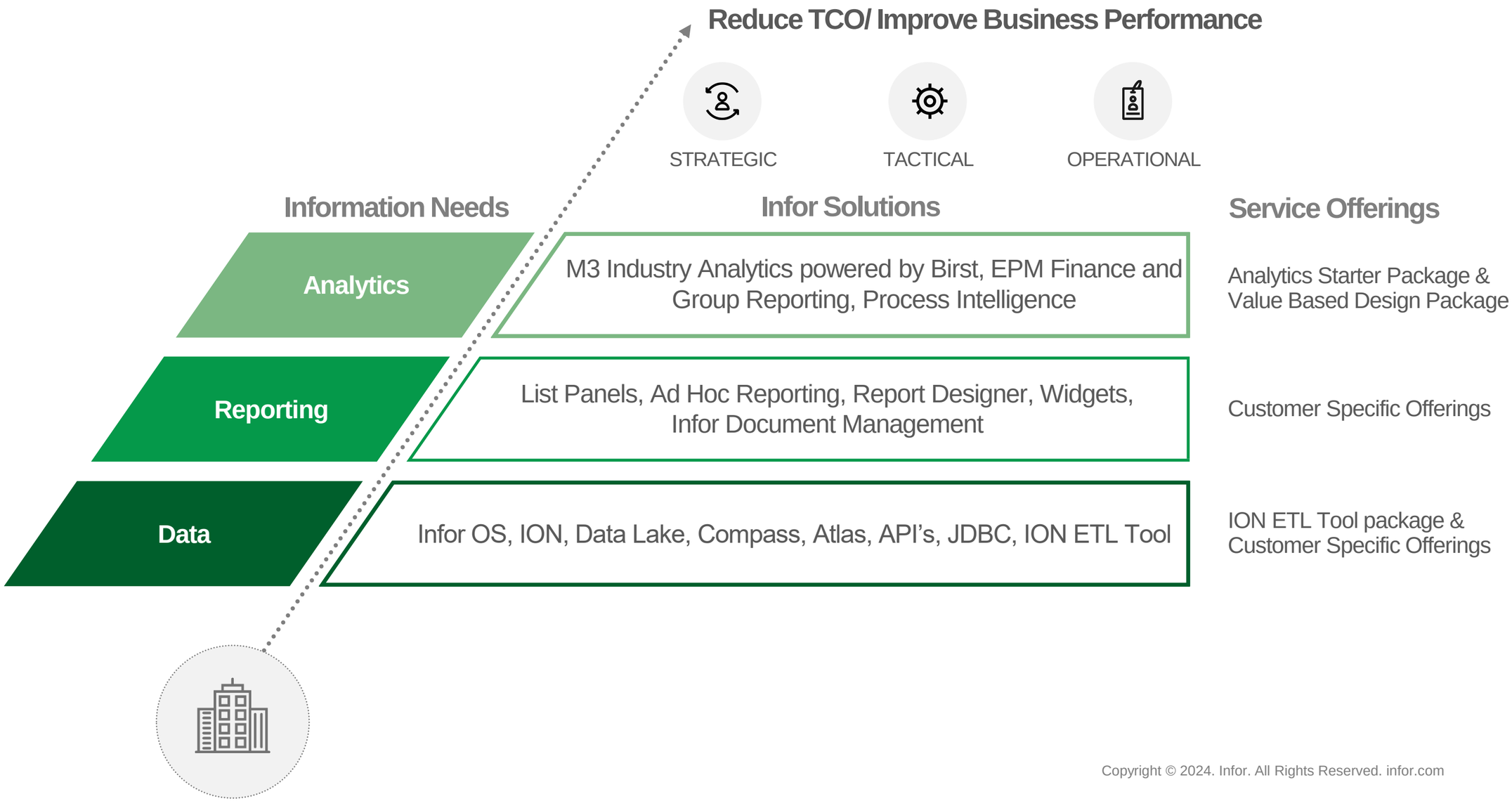
M3 CloudSuite Data Management



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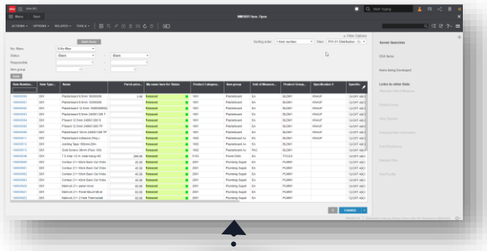
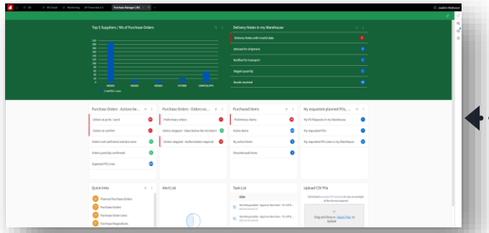
M3 Reporting Options

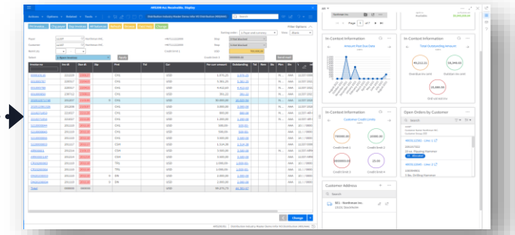


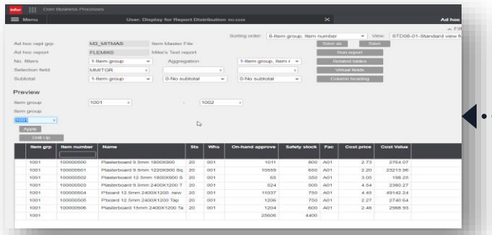


Workspaces & Infor Go

M3 On-Line Enquires

Contextual Apps

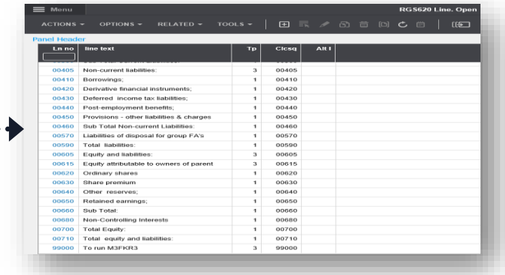


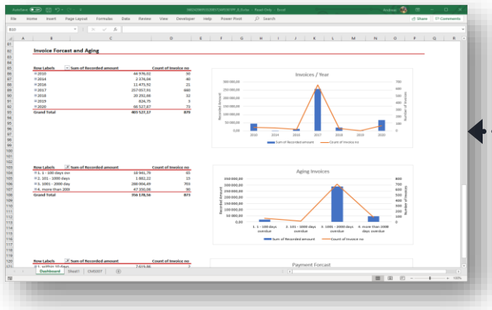


M3 Ad Hoc Reporting

M3 Business Engine

M3 Financial Report Writer

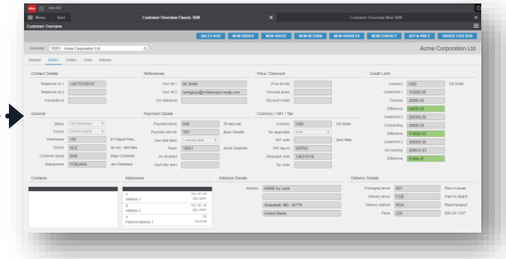


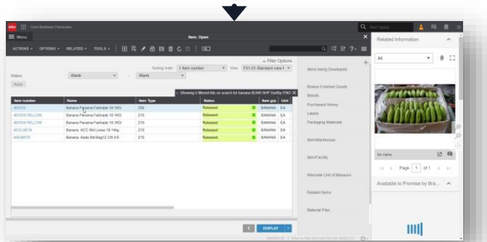


M3 Standard Reports

M3 Search

M3 H5 SDK & IDM





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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

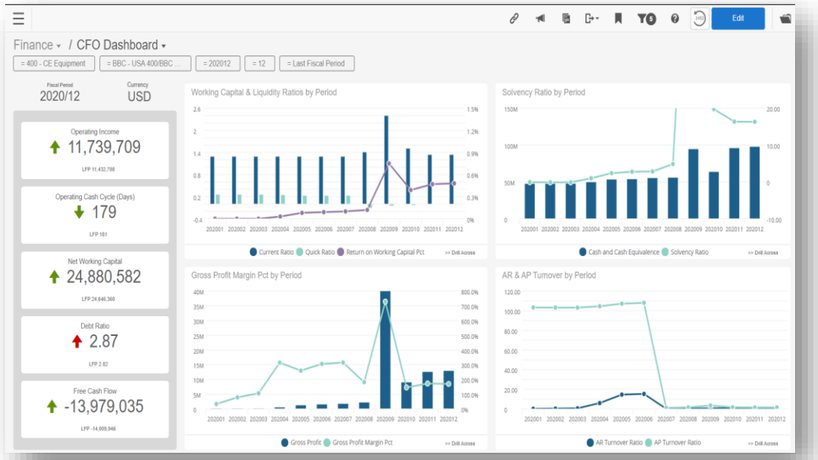
- Work Center Utilization
- Operational Analysis
- Order Costing

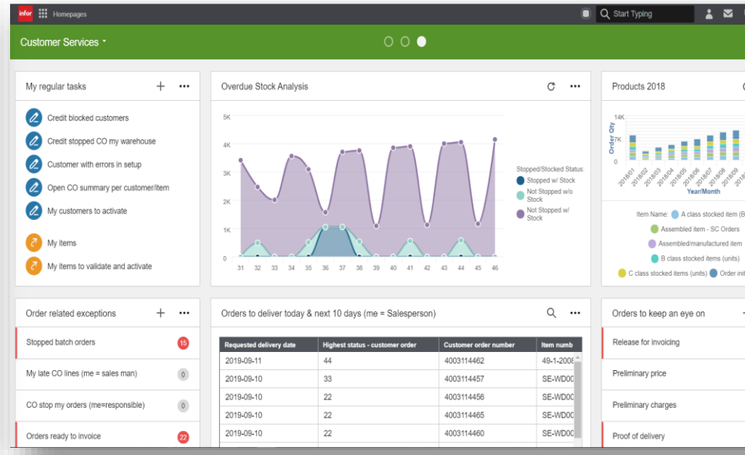
Warehouse

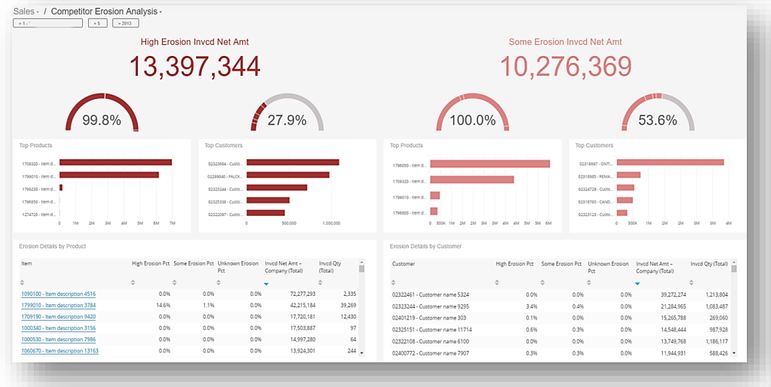
- Stock Statistics
- Stock Detailed

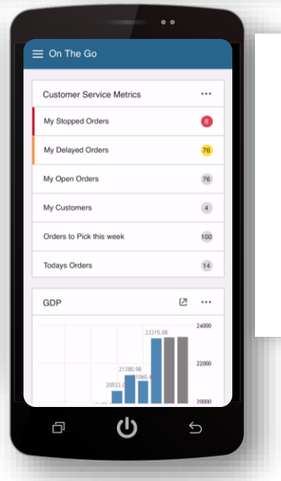
Equipment and Rental

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









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

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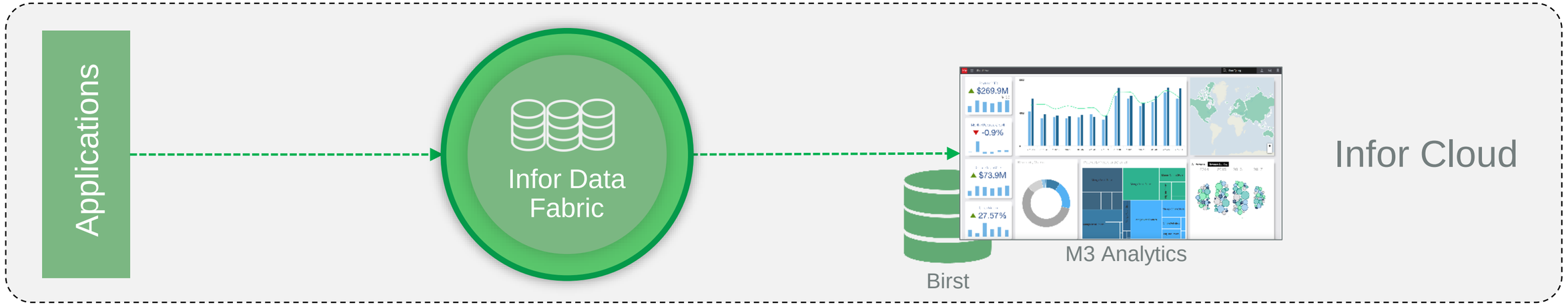
Data Lake – With M3 Analytics



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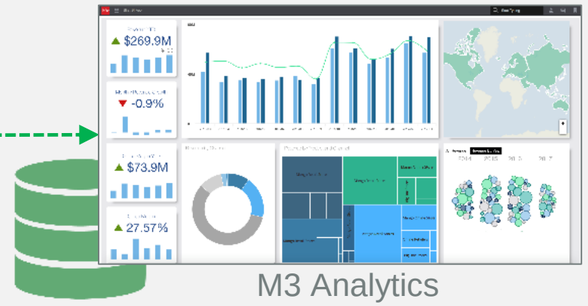
Data Lake – With external BI/DW

Applications

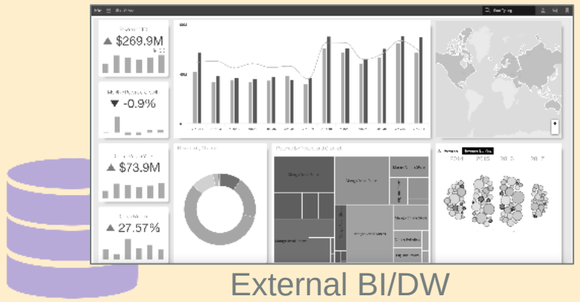
Infor Data Fabric



M3 Analytics

Birst

Infor Cloud



External BI/DW

Customer Managed

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Data Fabric

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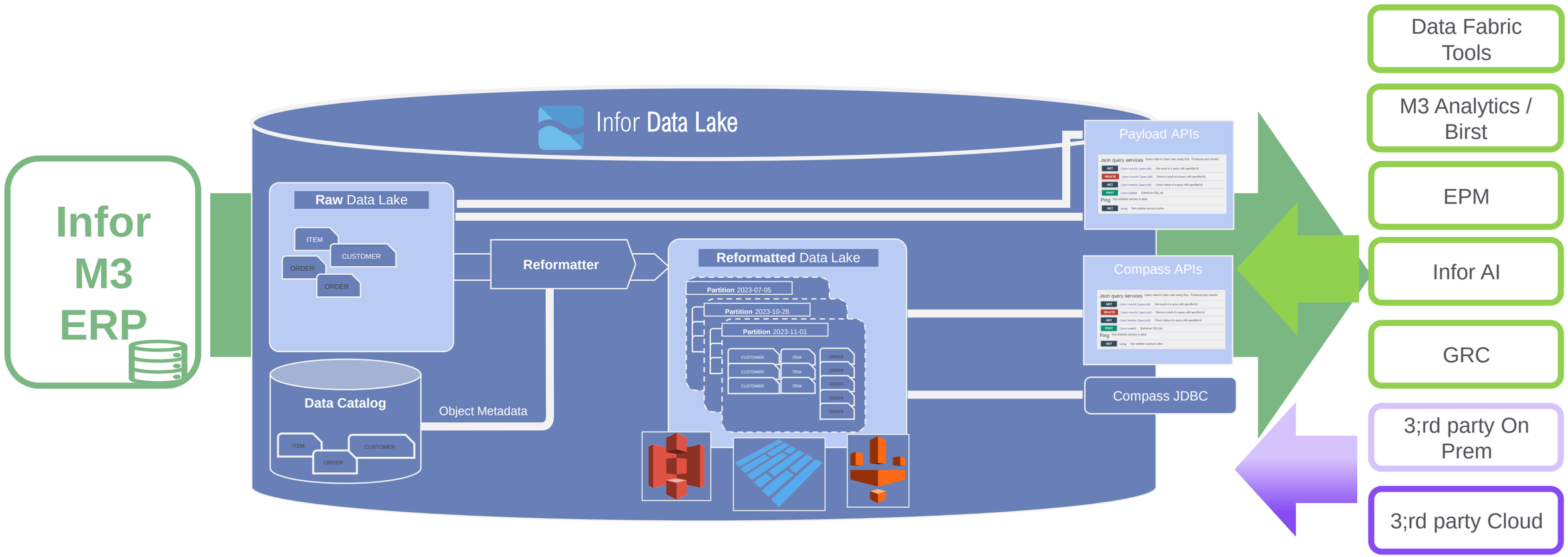
Infor Data Management – Data Fabric



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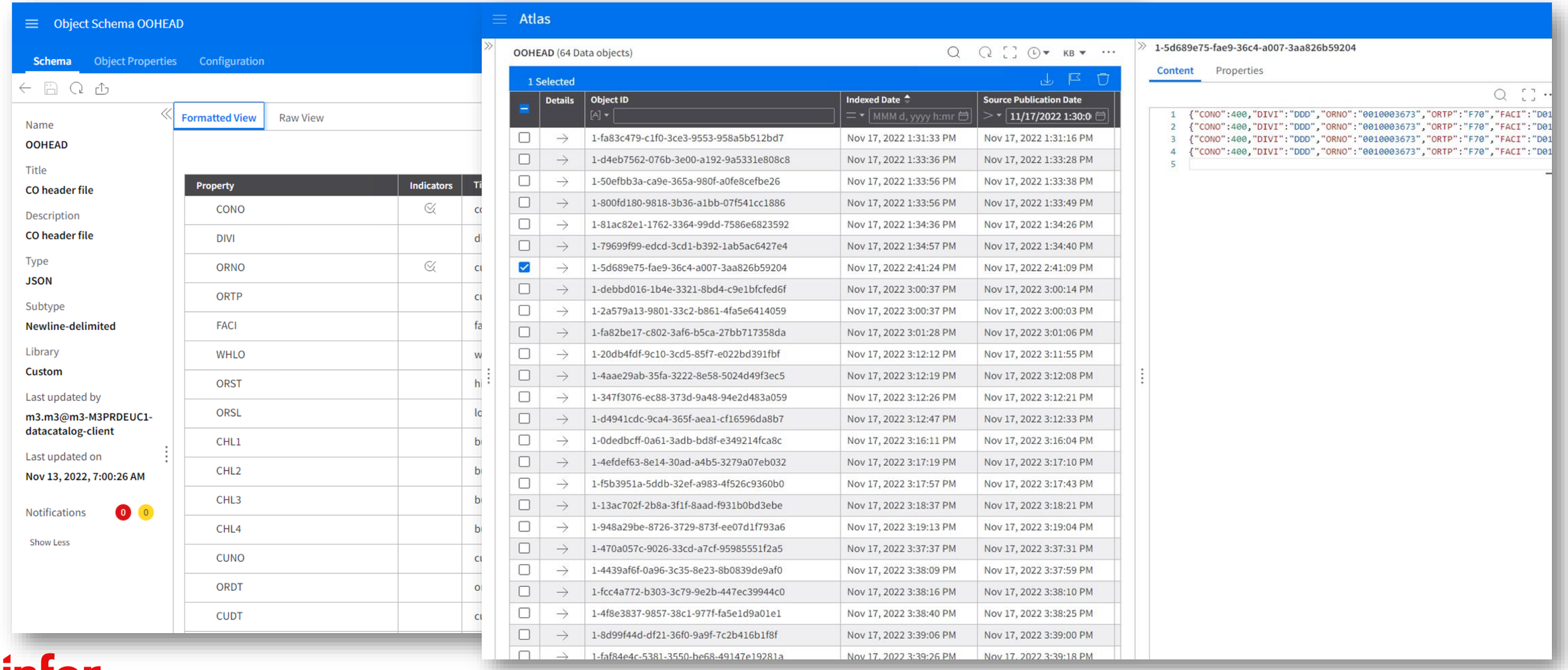
Data Lake Ingestion from M3

Raw JSON Data



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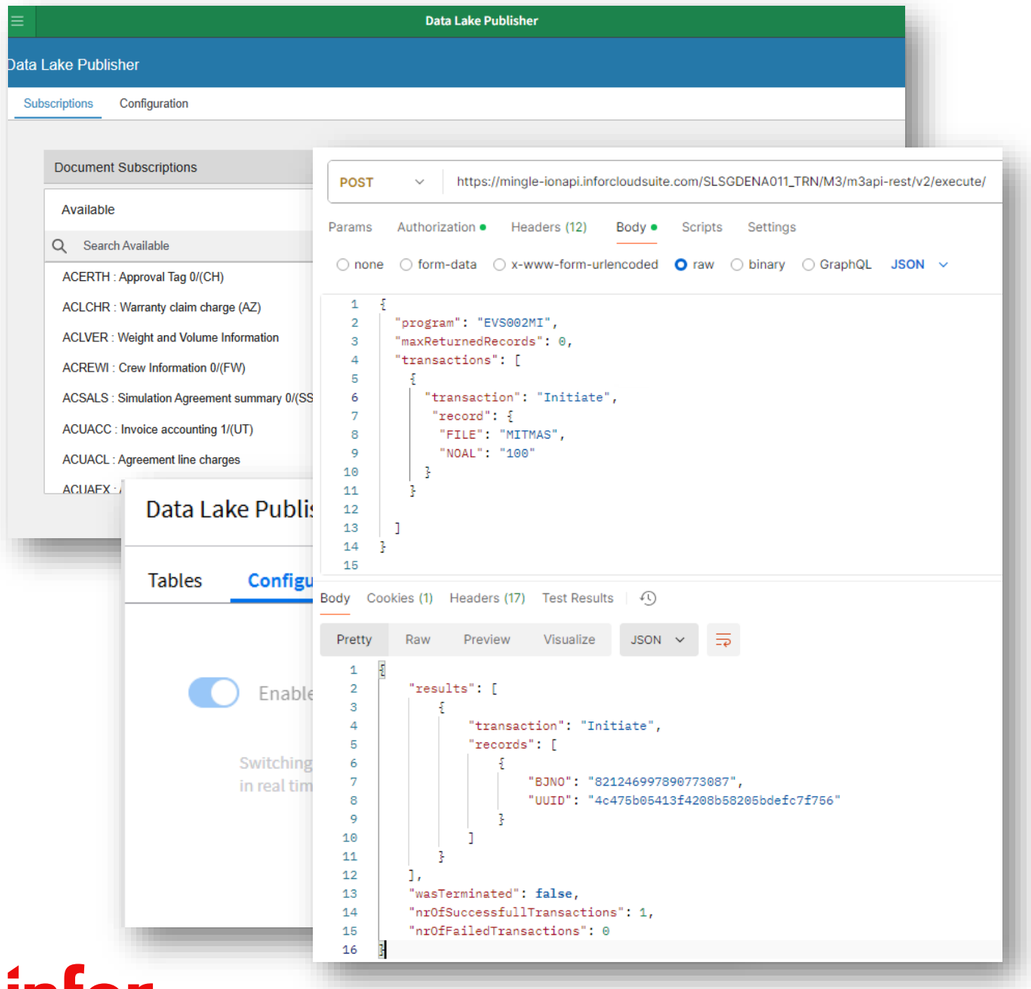
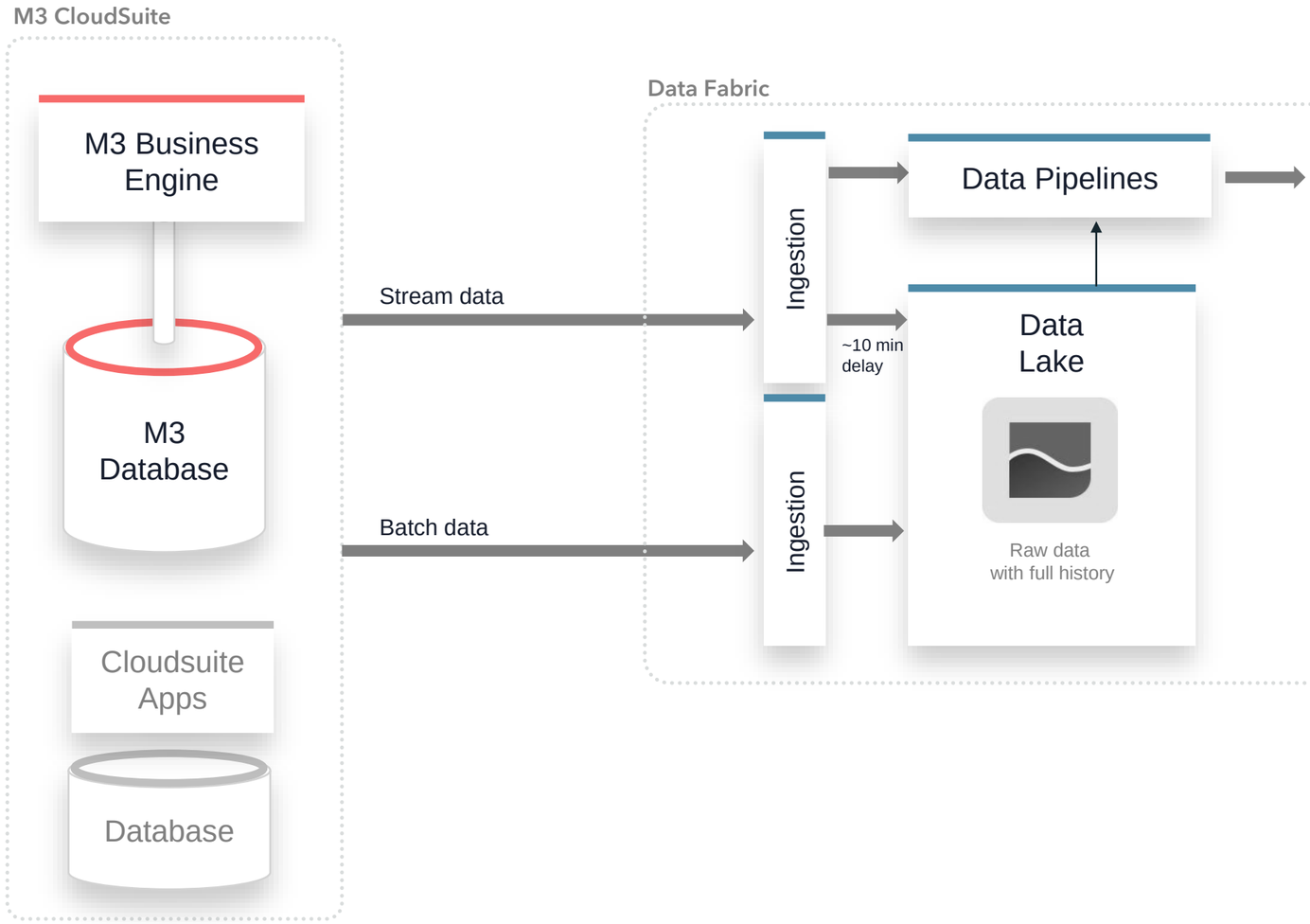
M3 to Data Fabric





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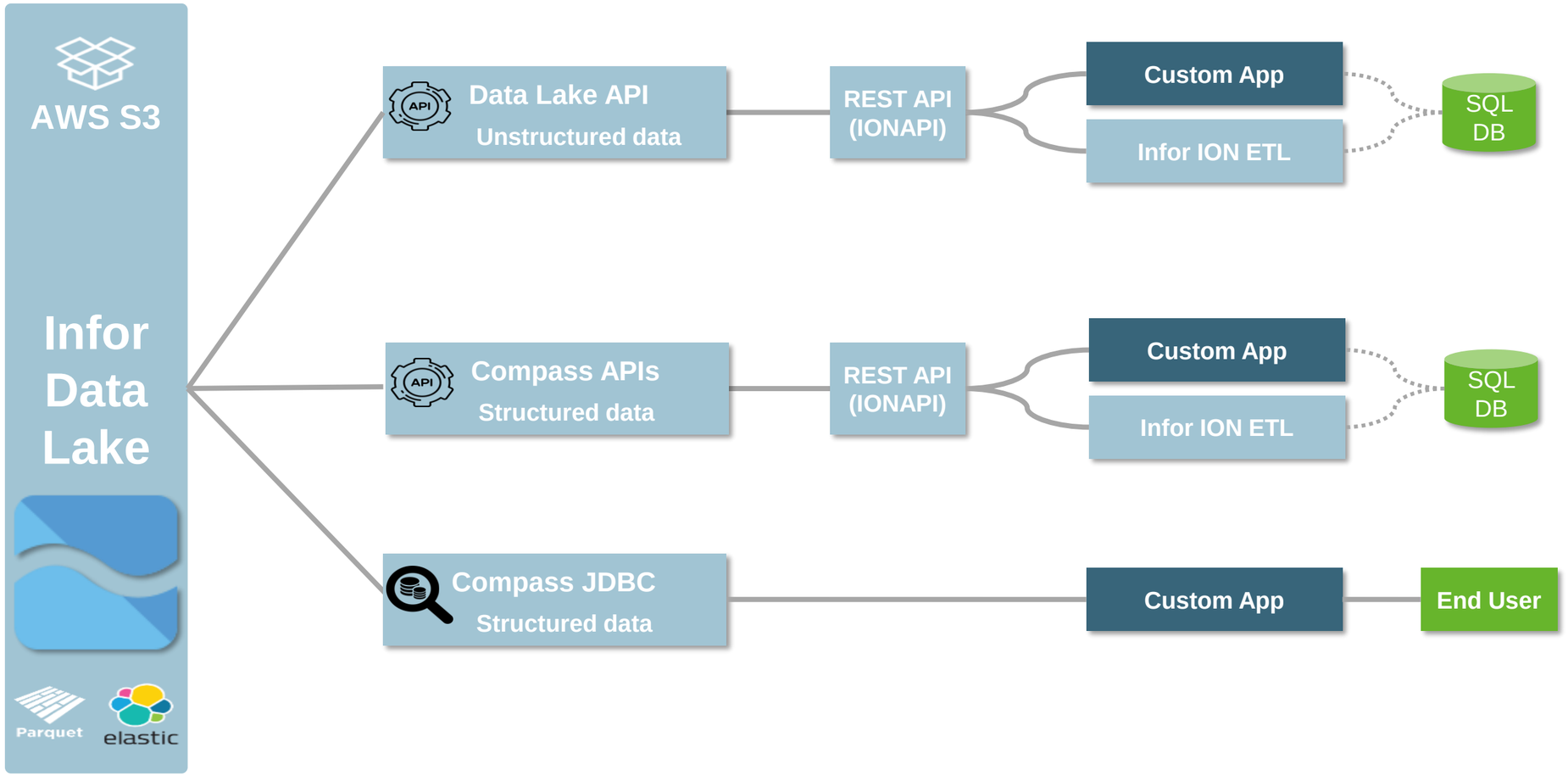
Consumers Overview



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.

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Data Lake Egress

API call retrieving unstructured data

Data Lake API
Unstructured data

GET https://mingle-ionapi.eu1.inforcloudsuite.com/SLSGDENA040_TST/DATAFABRIC/datalake/v2/dataobjects/byfilter?filter=dl_document_name eq 'OOHEAD' and dl_document_date range [2022-11-17T10:00:00Z, 2022-11-18T00:00:00Z]&records=10

Params • Authorization • Headers (11) Body Pre-request Script Tests Settings

Headers 9 hidden

KEY	VALUE	DESCRIPTION
accept	multipart/mixed	
Accept-Encoding	identity	
Key	Value	Description

Body Cookies (2) Headers (21) Test Results — Status: 200 OK

Pretty Raw Preview Visualize

```
--Boundary_252530_207609214_1668714946588
Content-Encoding: identity
Content-ID: 1-5d689e75-fae9-36c4-a007-3aa826b59204
dl_id: 1-5d689e75-fae9-36c4-a007-3aa826b59204
dl_compression_type: deflated
dl_document_name: OOHEAD
dl_document_date: 2022-11-17T13:41:20.867Z
dl_document_indexed_date: 2022-11-17T13:41:24.597Z
dl_message_id: 3db16a8f-9c47-41e2-a9c5-77cf702d81c4:-ION-:de6da722a40046e3b1767ff6c1519f66
dl_from_logical_id: infor.m3.m3:eventhub
dl_corrupt: false
dl_size: 1031
dl_encoding: UTF-8
dl_archived: false
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dl_channel: ion

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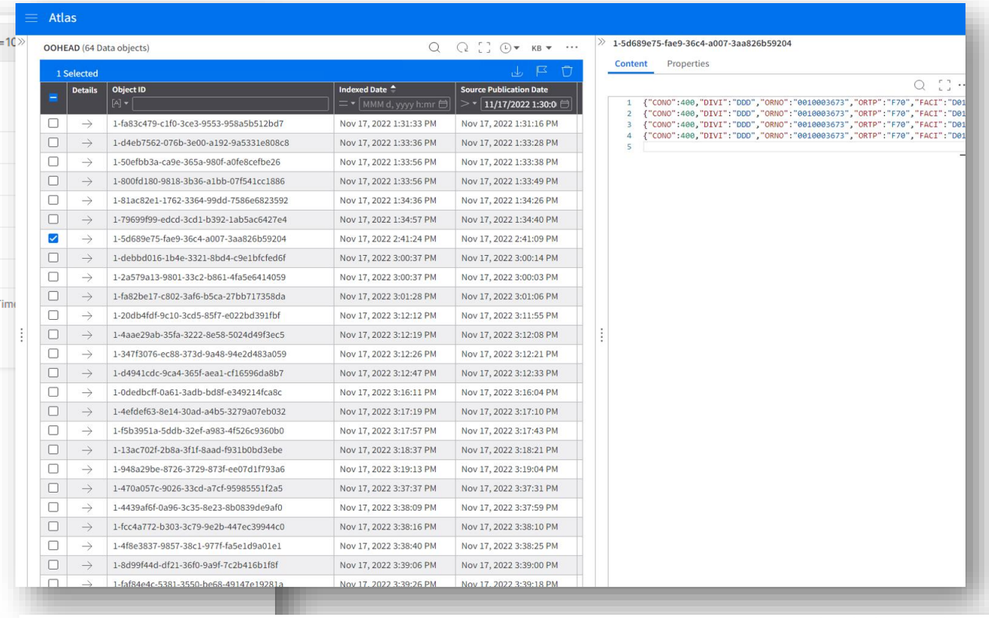

Data Lake Storage & Management 1.0 OAS 3.0

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.

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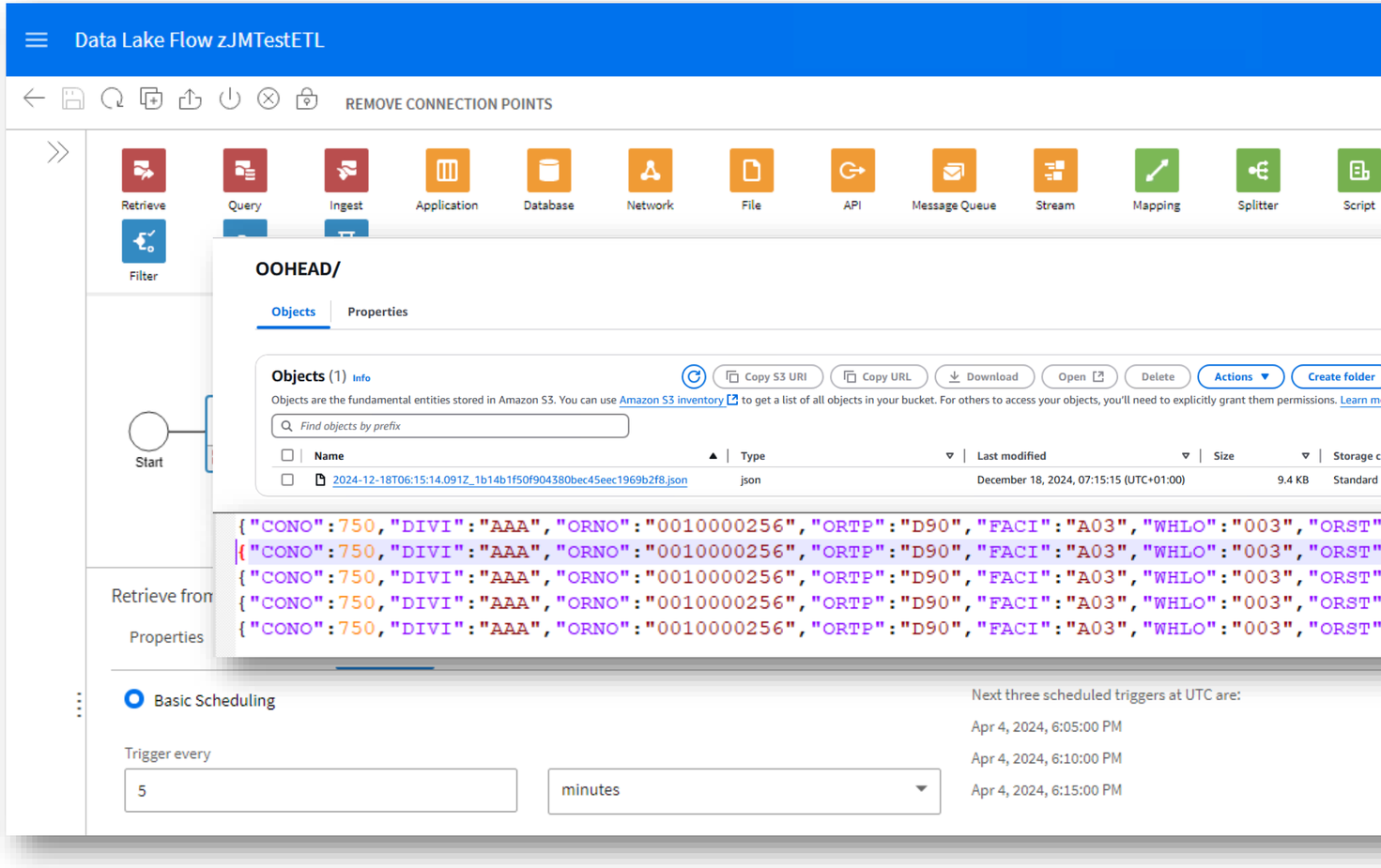
Data Lake Egress

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

Compass

Tab #6

Run query

Format

```
1  --*includeAllVariations=OOLINE
2  SELECT h.ORNO as OrderNumber,  h.CUNO as Customer,  l.PONR as LineNumber,  l.ITNO as Item,  l.ORQT as Quantity,  l.SAPR Price,  l.LMDT ChnageDate,  l.deleted DeletedRecord
3    FROM  OOHEAD h
4    JOIN OOLINE l on h.CONO = l.CONO and h.ORNO = l.ORNO
5  WHERE
6    h.CONO = 400 AND h.LMDT = 20221117 AND h.CUNO='75-JMDE001'
7    ORDER BY h.ORNO, l.PONR
```

Results (18 rows in 6.3 seconds, on 11/19/2022 6:27 PM)

	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

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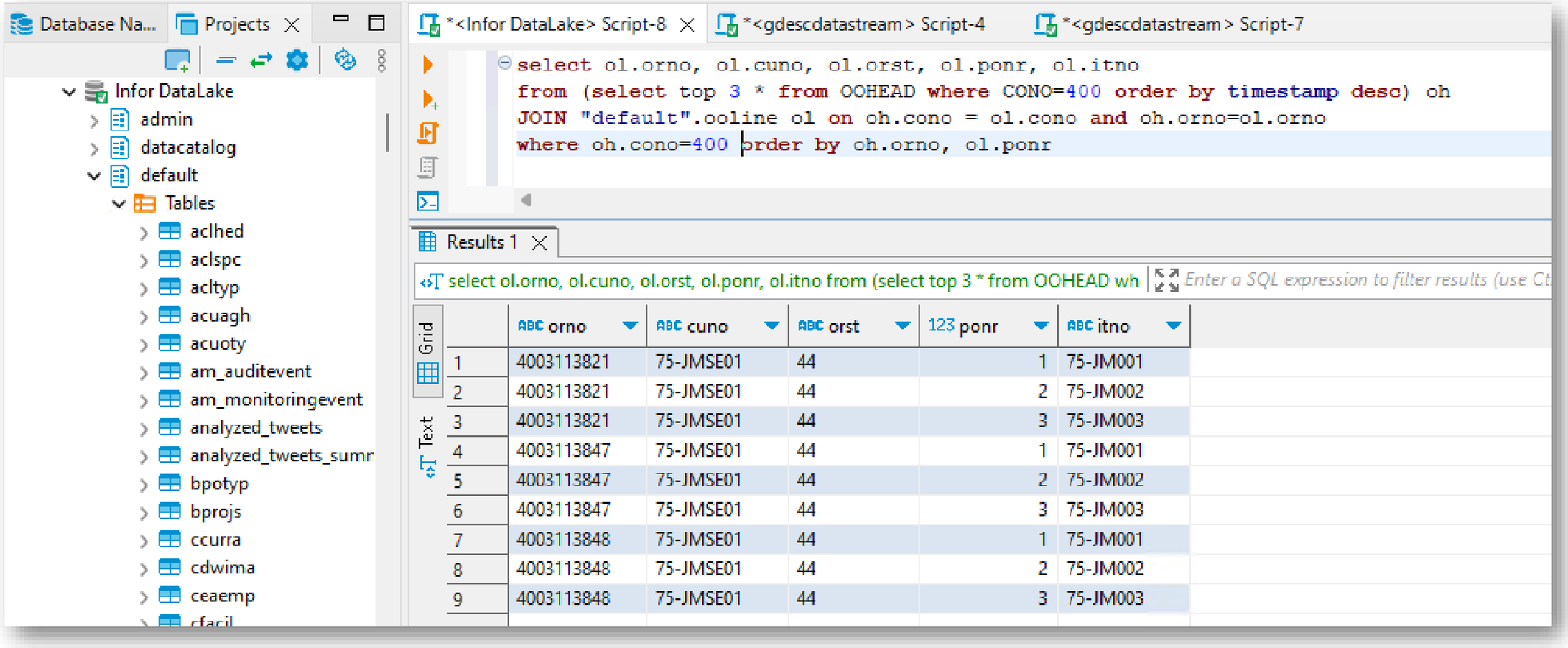
Data Lake Egress

SQL query using the JDBC driver

Compass JDBC
Structured data



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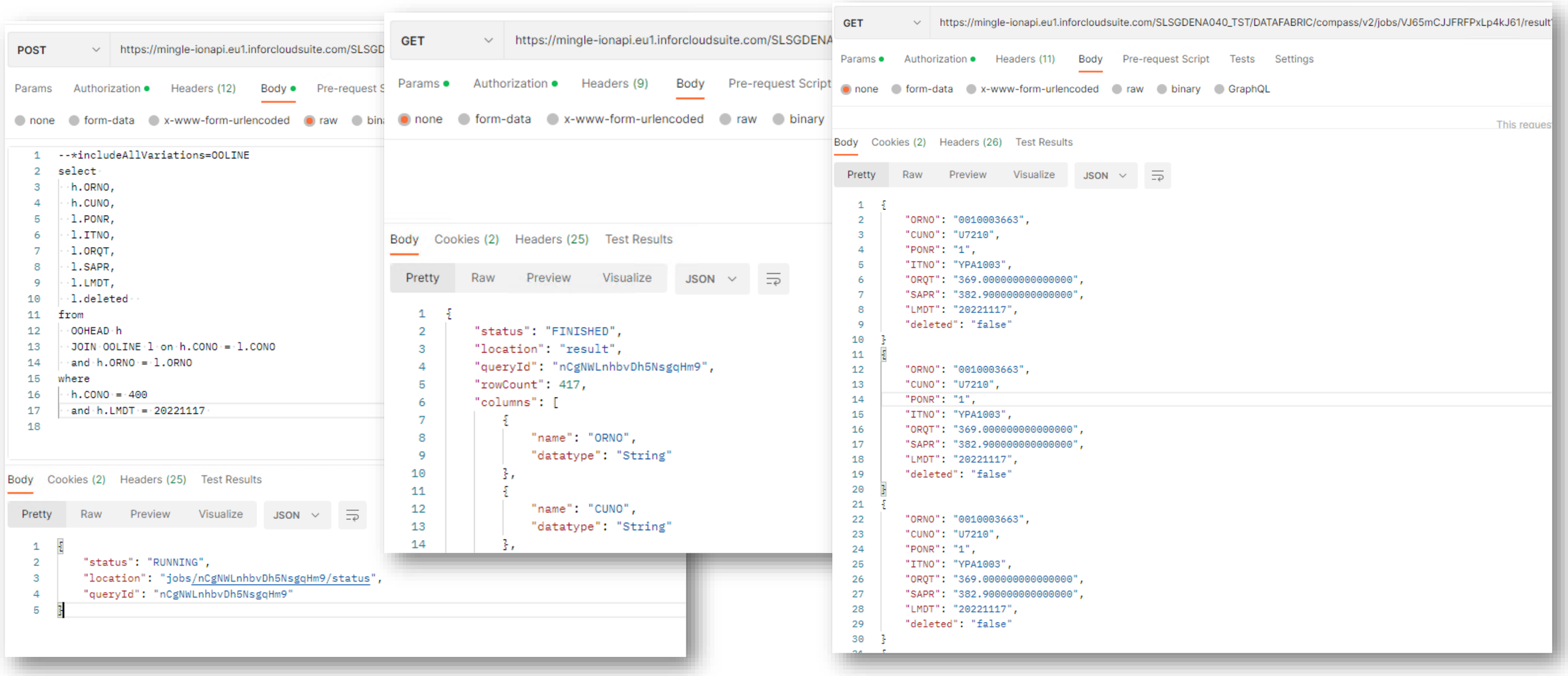
Data Lake Egress

SQL REST API call

Compass APIs
Structured data



[Variation handling and query hints]

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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

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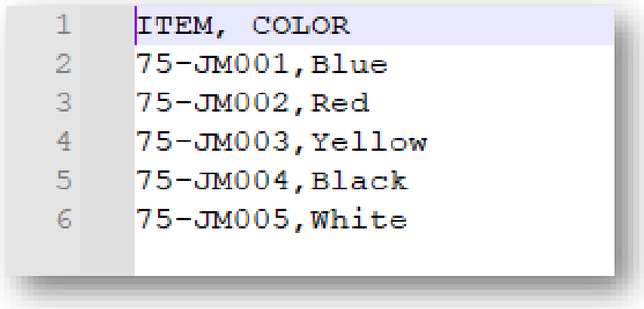
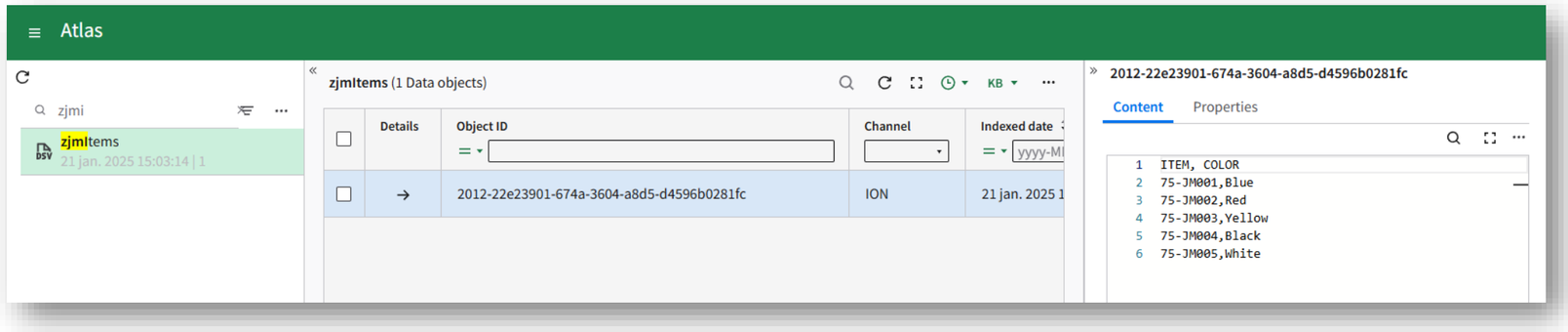
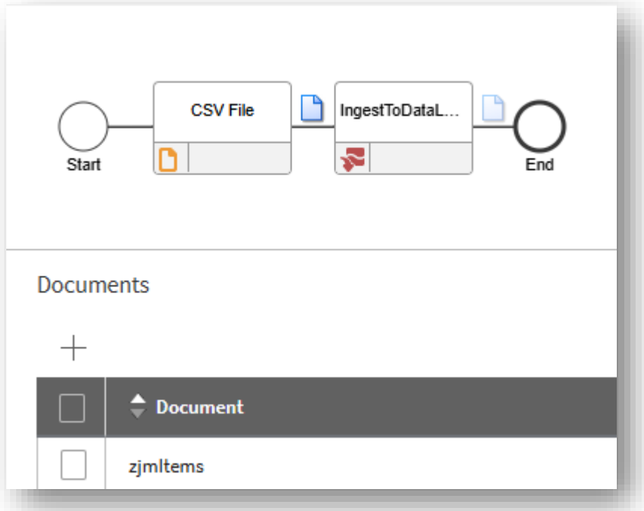
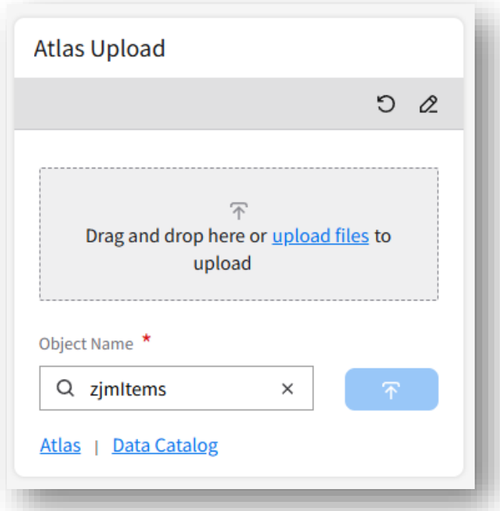
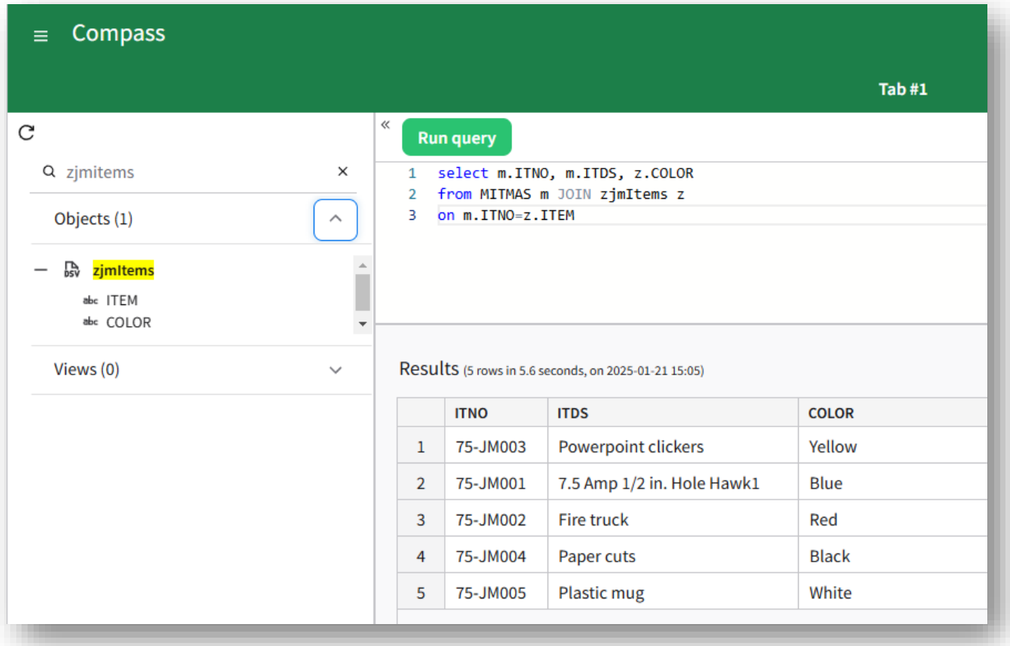
Ingest external data











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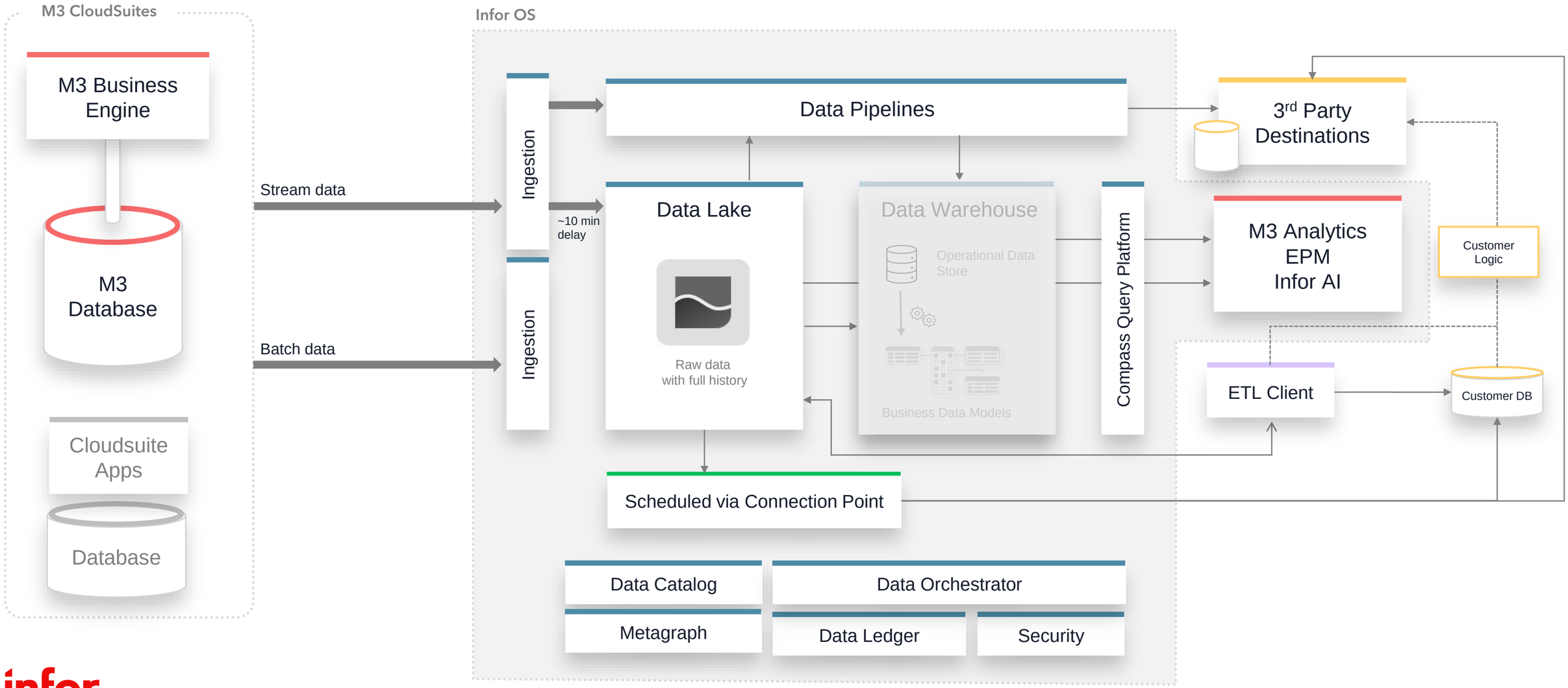
M3 and Data Fabric 2024



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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

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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*

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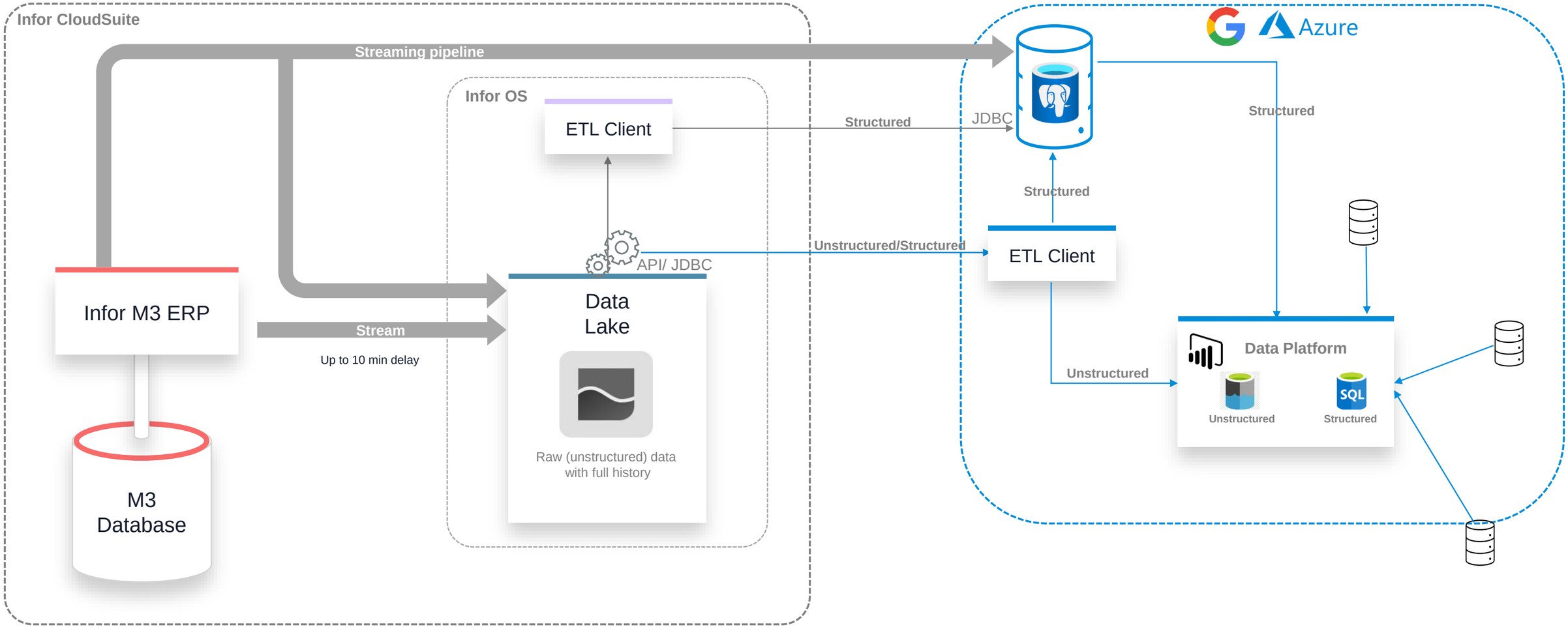
Architecture with Cloud provider



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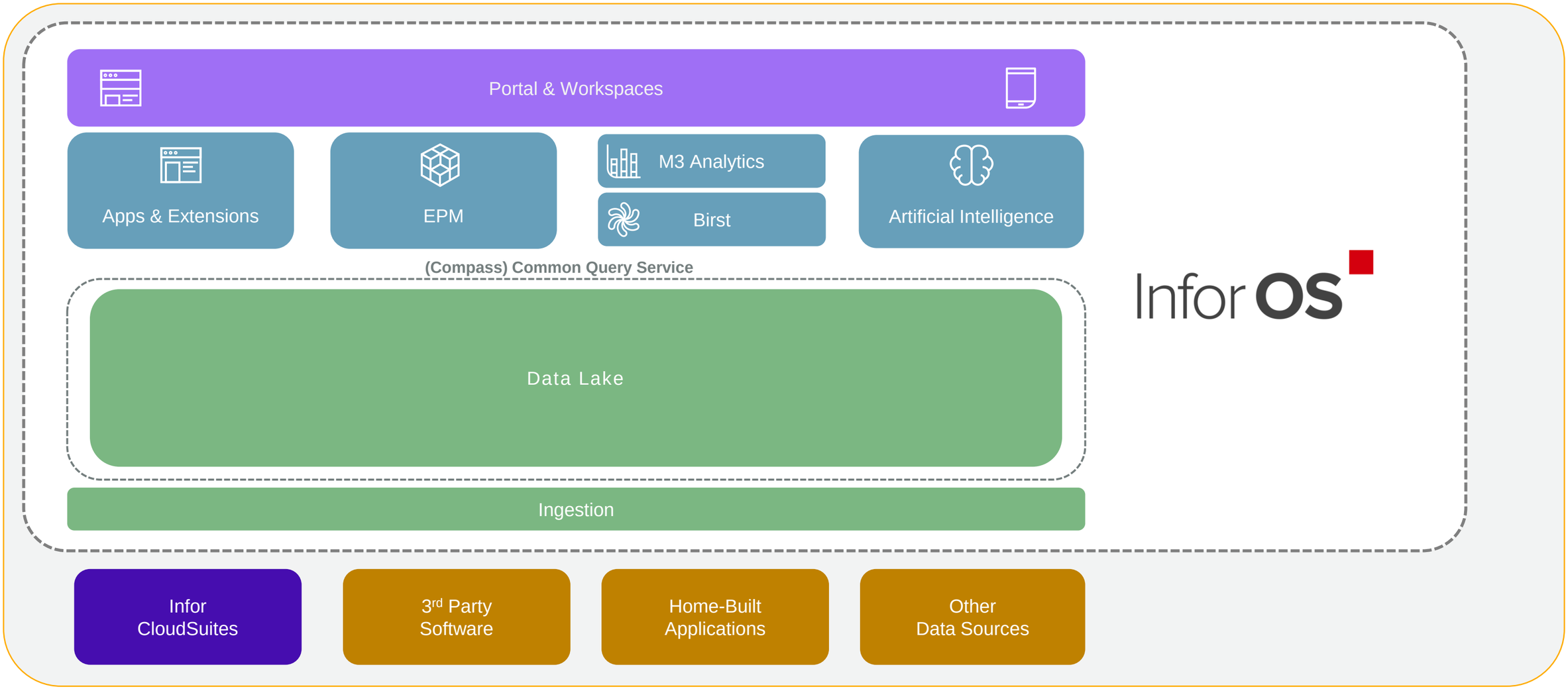
Data Fabric & Related Applications Overview



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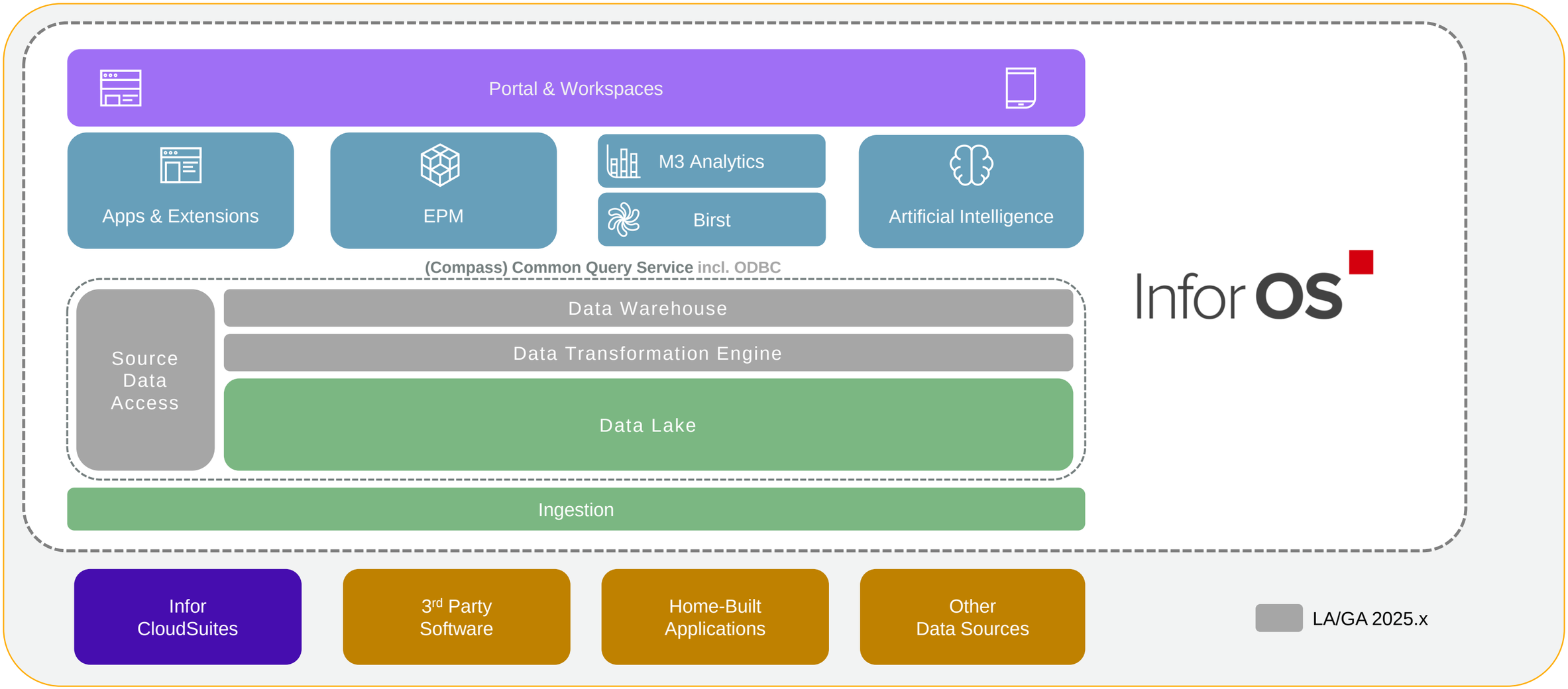
Data Fabric & Related Applications Overview 2025+



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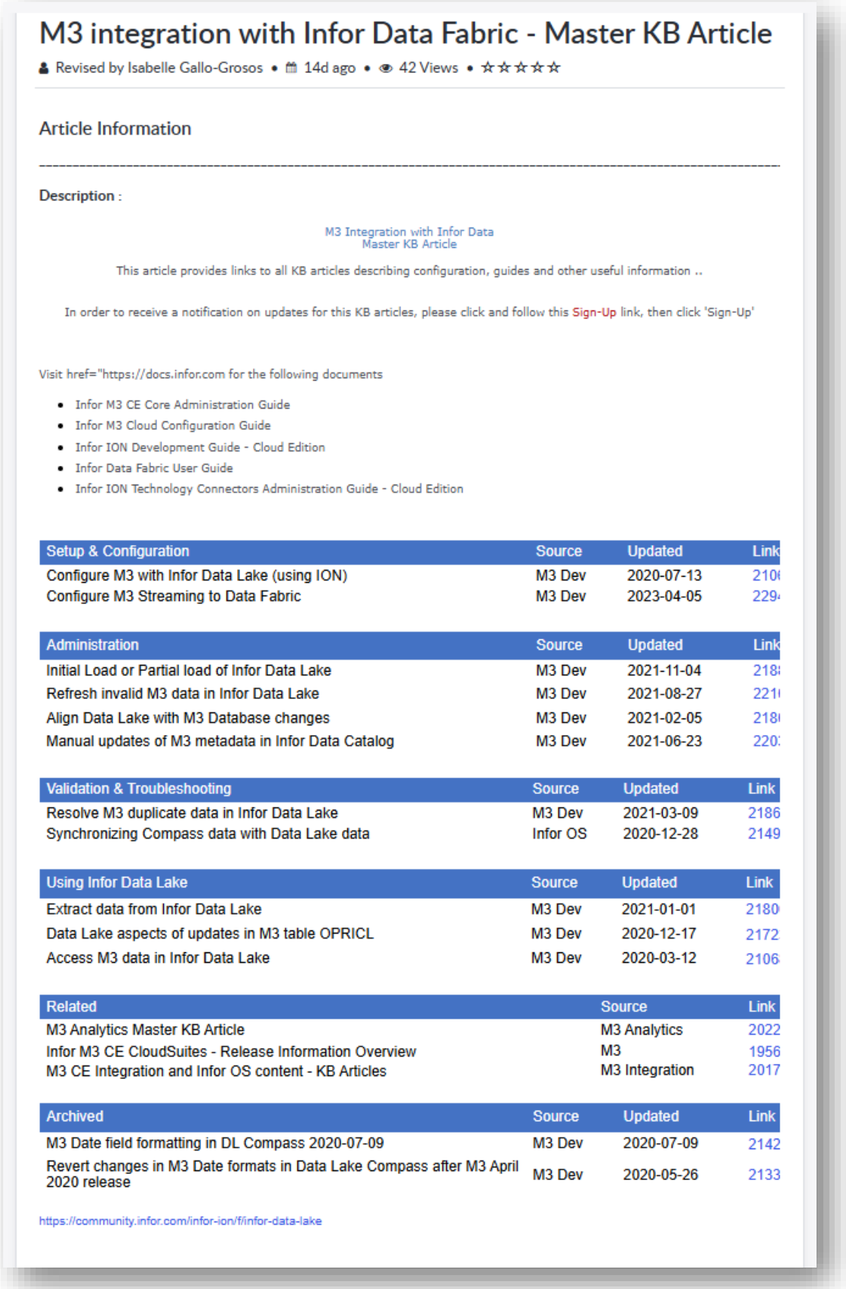
Master KB Article

Main resource for Knowledge Transfer

- How to Setup and Configure M3 with Data Fabric
- Administration
- Data Validation & Troubleshooting
- How access and make use of Data Lake

Master KB: ***KB2186646***



M3 integration with Infor Data Fabric - Master KB Article

Revised by Isabelle Gallo-Grosos • 14d ago • 42 Views • ☆☆☆☆☆

Article Information

Description :

M3 Integration with Infor Data
Master KB Article

This article provides links to all KB articles describing configuration, guides and other useful information ..

In order to receive a notification on updates for this KB articles, please click and follow this Sign-Up link, then click 'Sign-Up'

Visit href="https://docs.infor.com for the following documents

- Infor M3 CE Core Administration Guide
- Infor M3 Cloud Configuration Guide
- Infor ION Development Guide - Cloud Edition
- Infor Data Fabric User Guide
- Infor ION Technology Connectors Administration Guide - Cloud Edition

Setup & Configuration	Source	Updated	Link
Configure M3 with Infor Data Lake (using ION)	M3 Dev	2020-07-13	210
Configure M3 Streaming to Data Fabric	M3 Dev	2023-04-05	229

Administration	Source	Updated	Link
Initial Load or Partial load of Infor Data Lake	M3 Dev	2021-11-04	218
Refresh invalid M3 data in Infor Data Lake	M3 Dev	2021-08-27	221
Align Data Lake with M3 Database changes	M3 Dev	2021-02-05	218
Manual updates of M3 metadata in Infor Data Catalog	M3 Dev	2021-06-23	220

Validation & Troubleshooting	Source	Updated	Link
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