

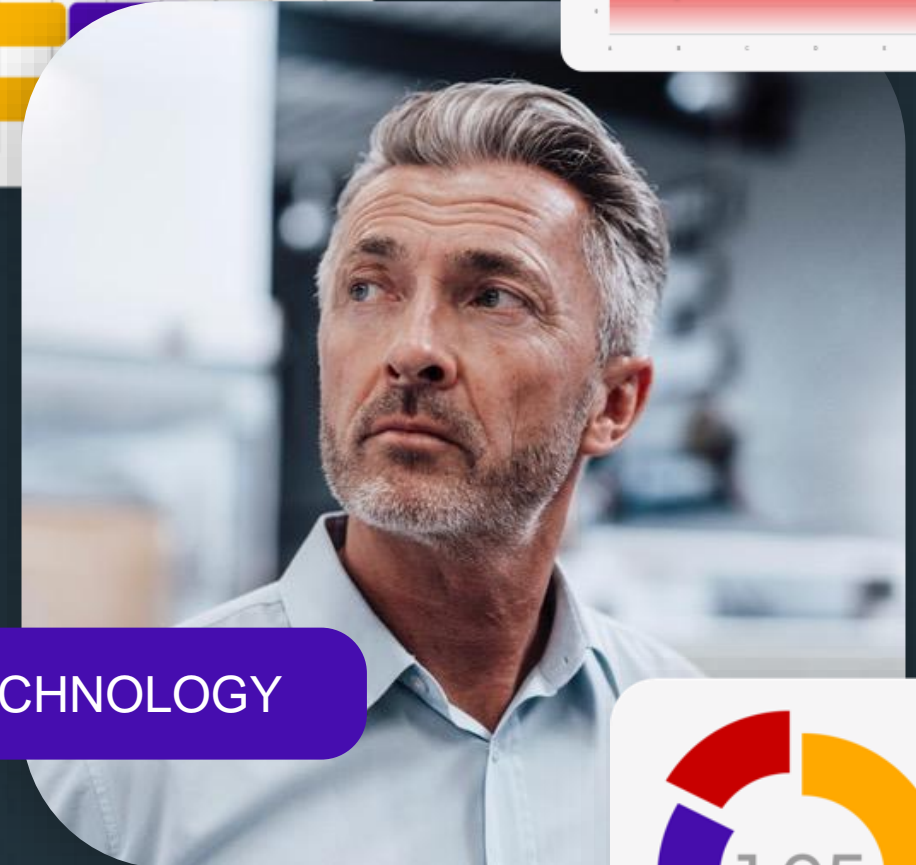
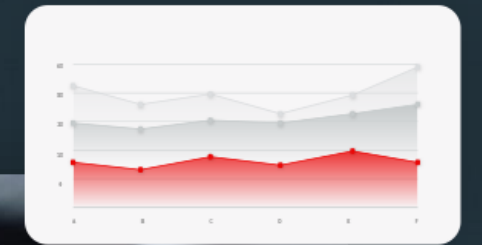


Infor OS

Data Management

Joakim Mattsson
Per Melander
Infor

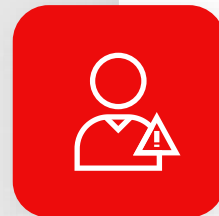
2025.03



TECHNOLOGY



Disclaimer

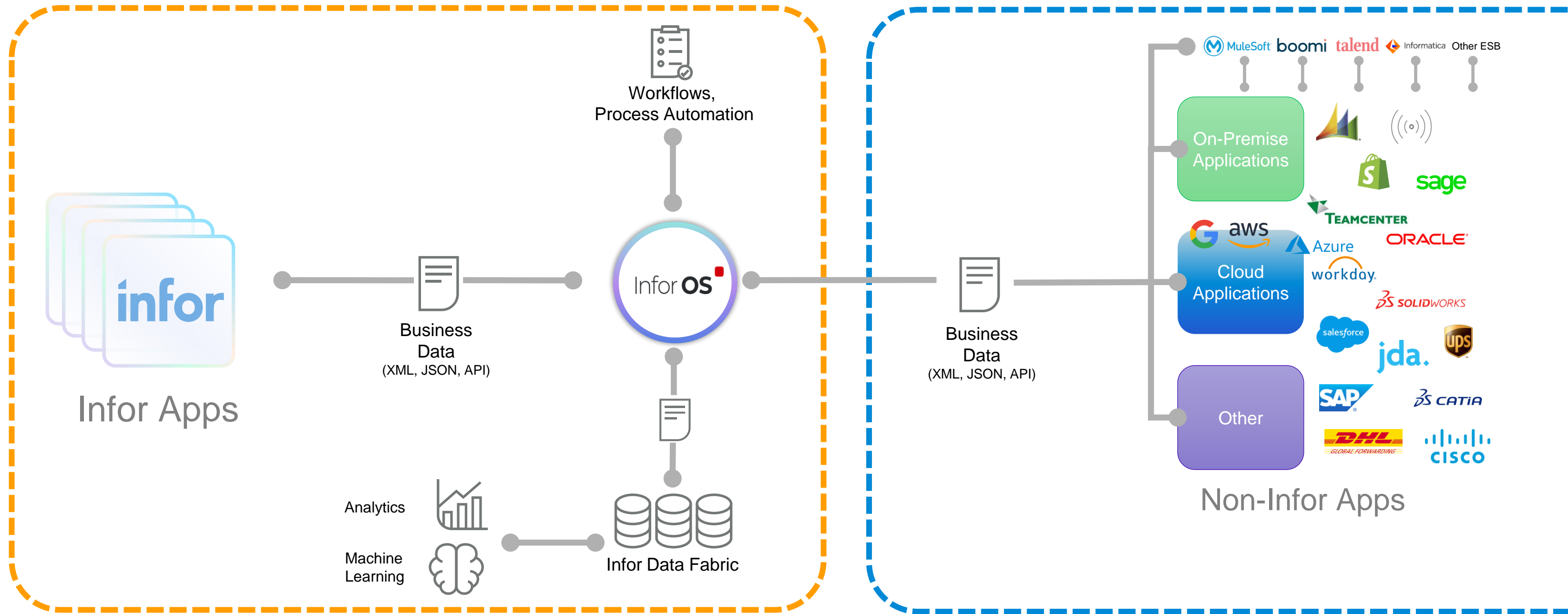


This presentation reflects the direction Infor may take with regard to the products or services described herein, all of which is subject to change without notice. This presentation is not a commitment to you in any way and you should not rely on any content herein in making any decision.

Infor is not committing to develop or deliver any specified enhancement, upgrade, product, service or functionality, even if such is described herein. Many factors can affect Infor's product development plans and the nature, content and timing of future product releases, all of which remain in the sole discretion of Infor. This presentation, in whole or in part, may not be incorporated into any agreement. Infor expressly disclaims any liability with respect to this presentation.

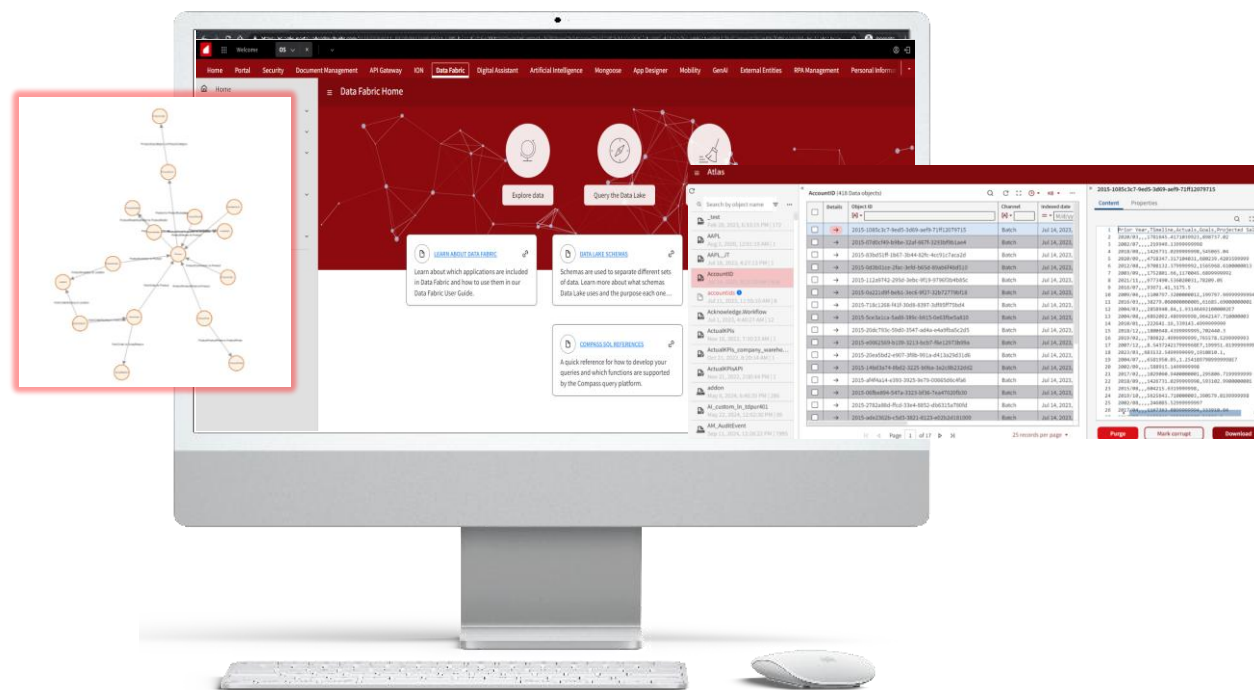
Capabilities covered in this presentation may require additional licensing.

Integration architecture

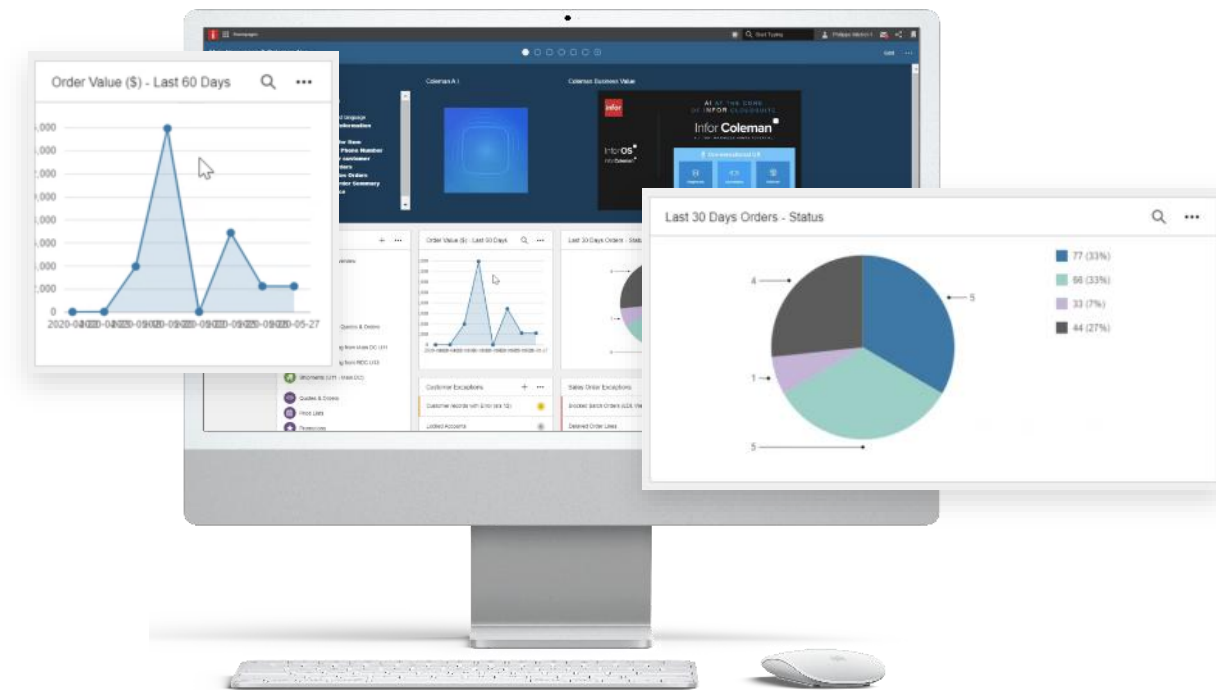


Data (+) Intelligence

Data Platform



Intelligence



Data Ingestion

Data Catalog

Data Lake

Data Security

Data (Stream) Pipelines

Metagraph

Compass Query

Data Management

Insights

Dashboards

Analytics Widgets

Artificial Intelligence

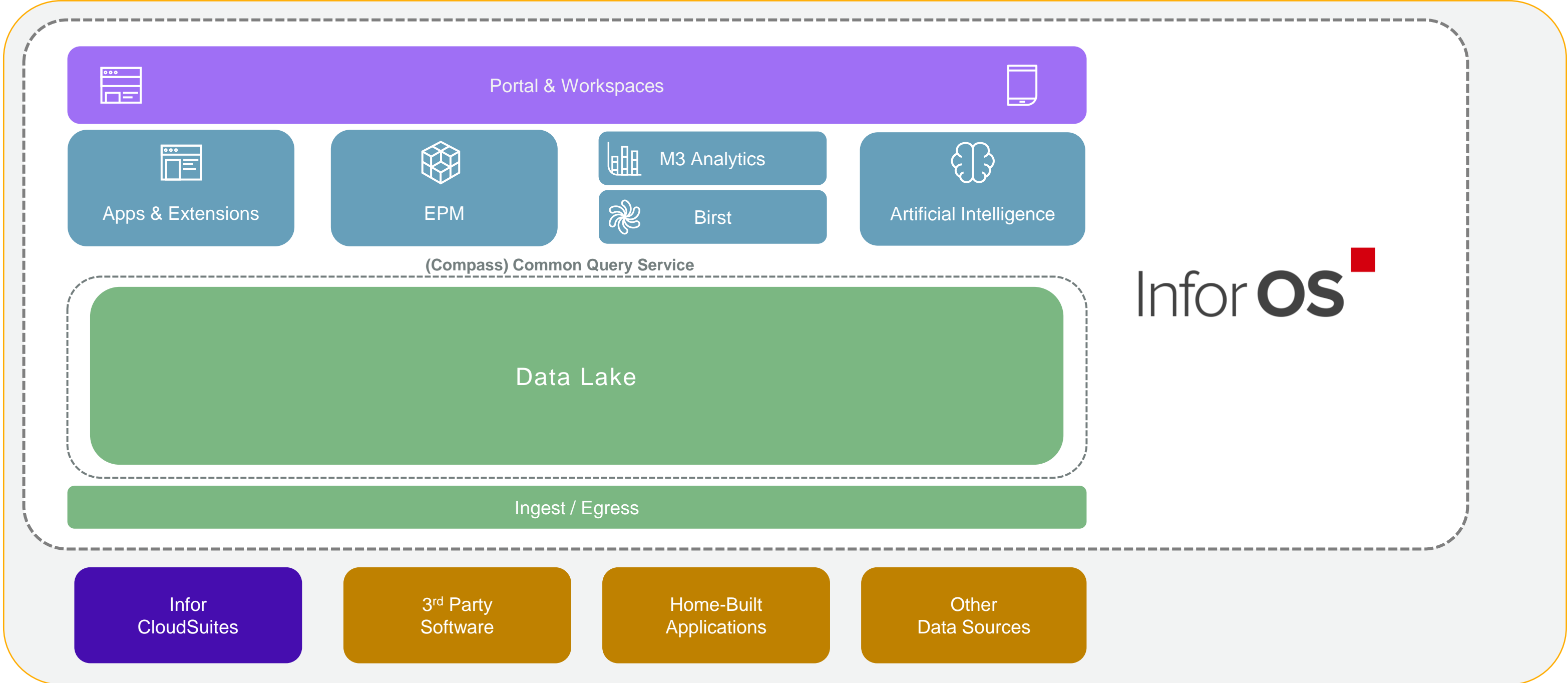
Content

Reports

Intelligent Workspaces

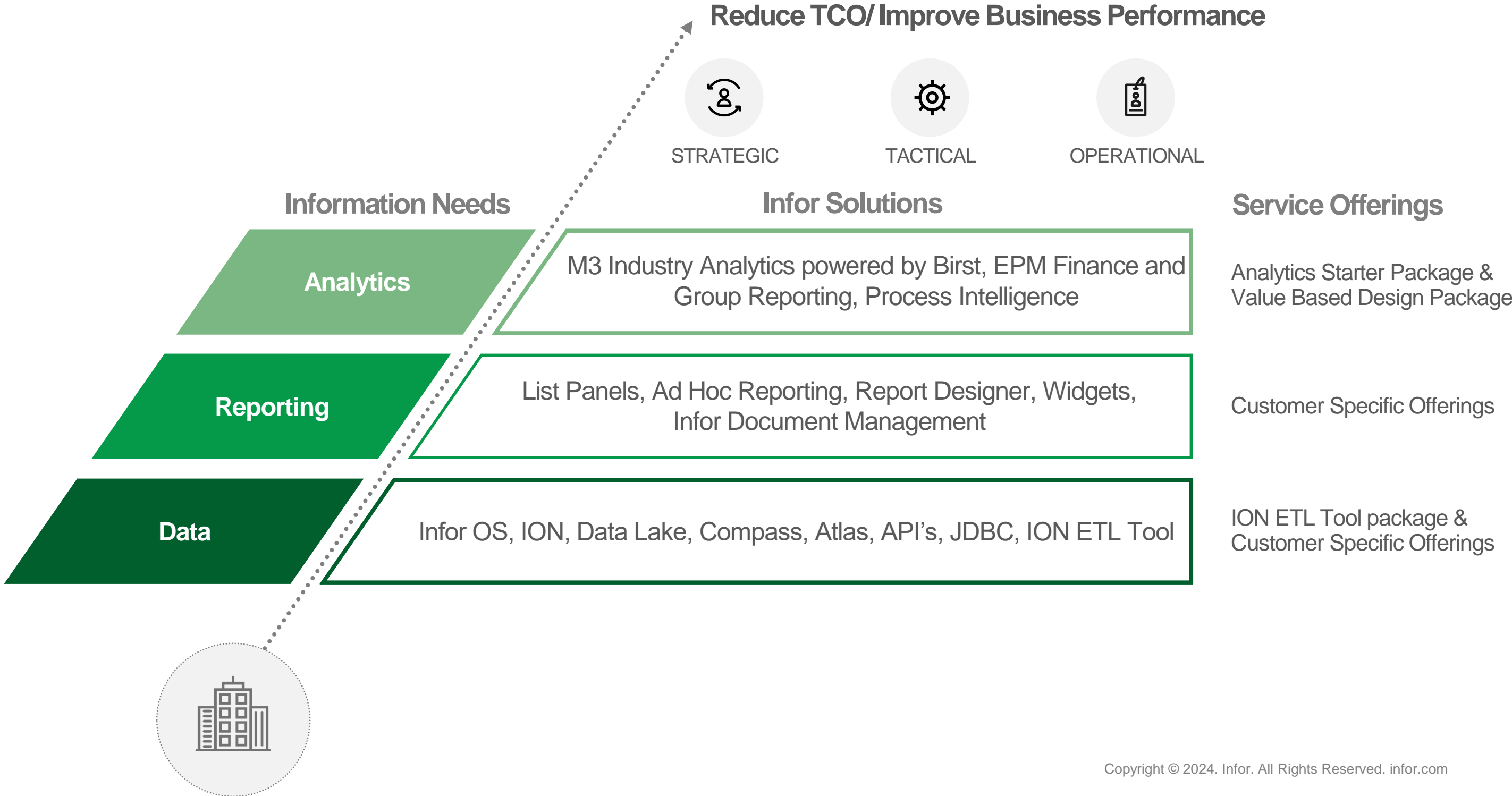
Process Intelligence

Data Fabric & Related Applications Overview



Infor OS

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

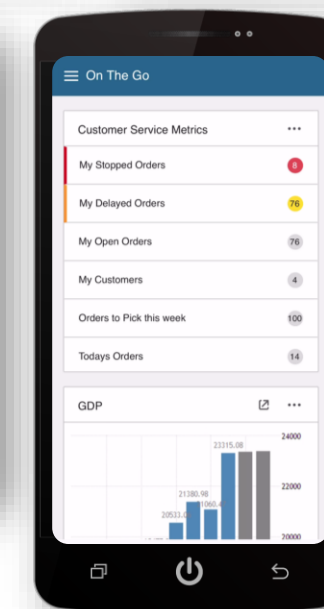
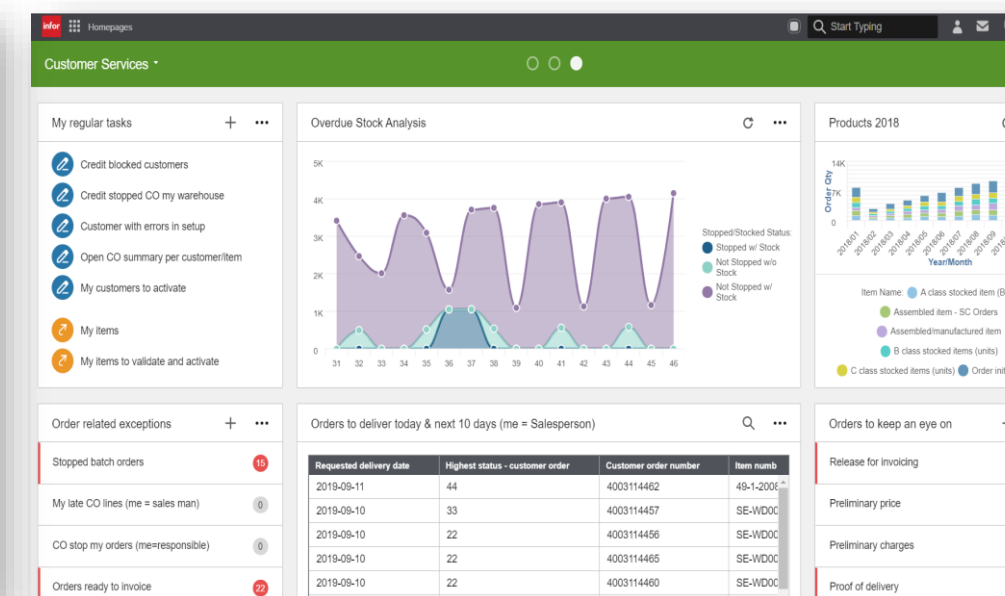
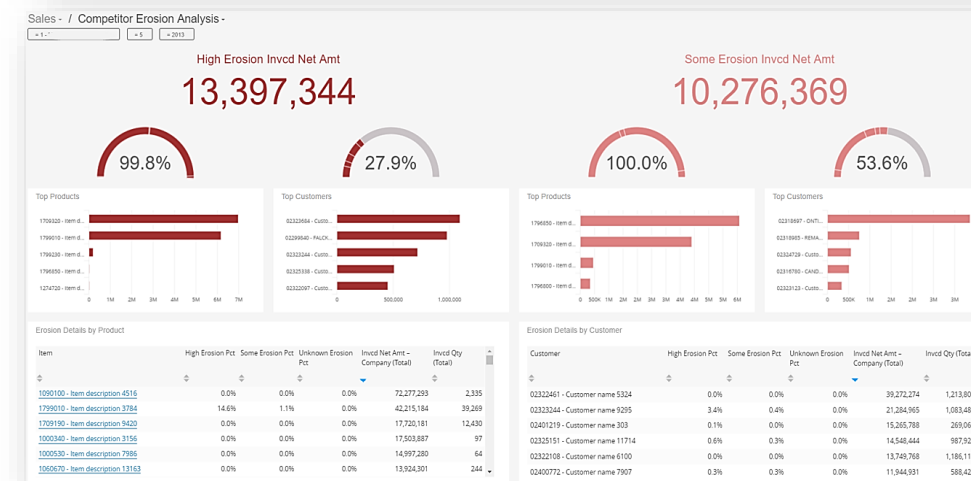
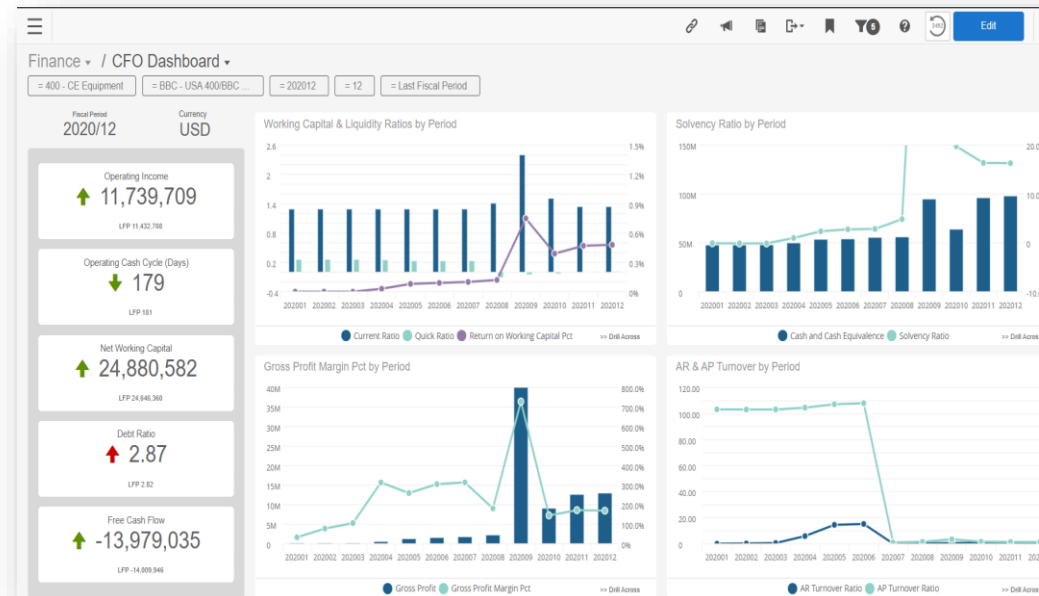
- Work Center Utilization
- Operational Analysis
- Order Costing

Warehouse

- Stock Statistics
- Stock Detailed

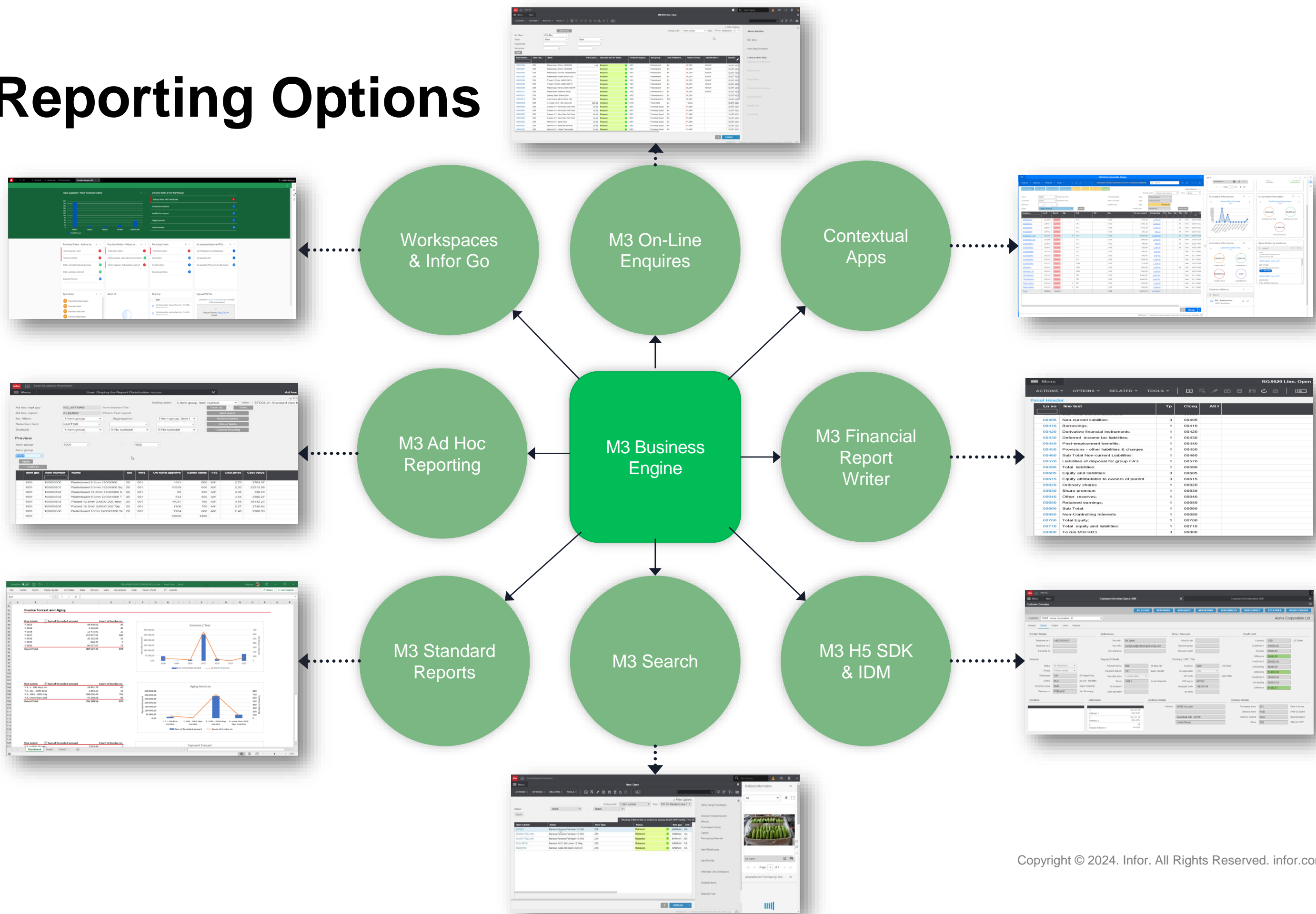
Equipment and Rental

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

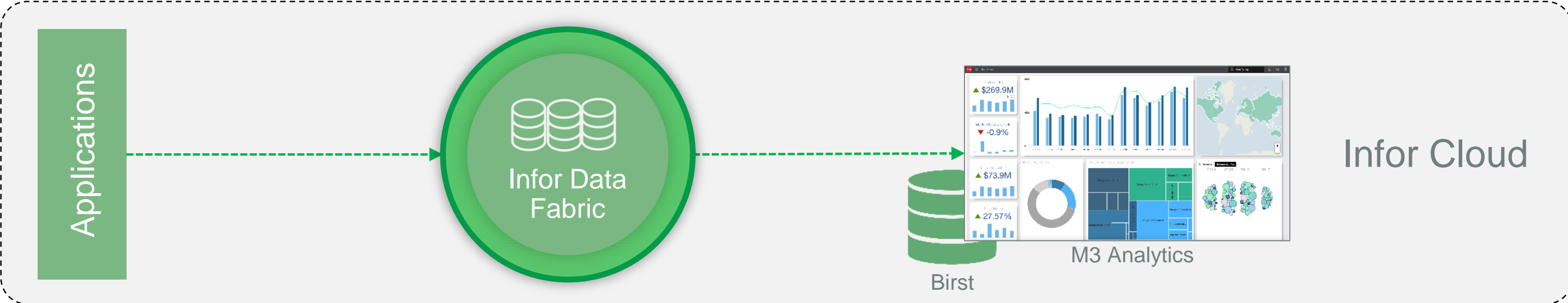


- ✓ 50+ Dashboards
- ✓ 300+ Reports
- ✓ 1200+ Metrics
- ✓ 100+ Dimensions
- ✓ 1500+ Attributes
- ✓ Drillbacks to M3

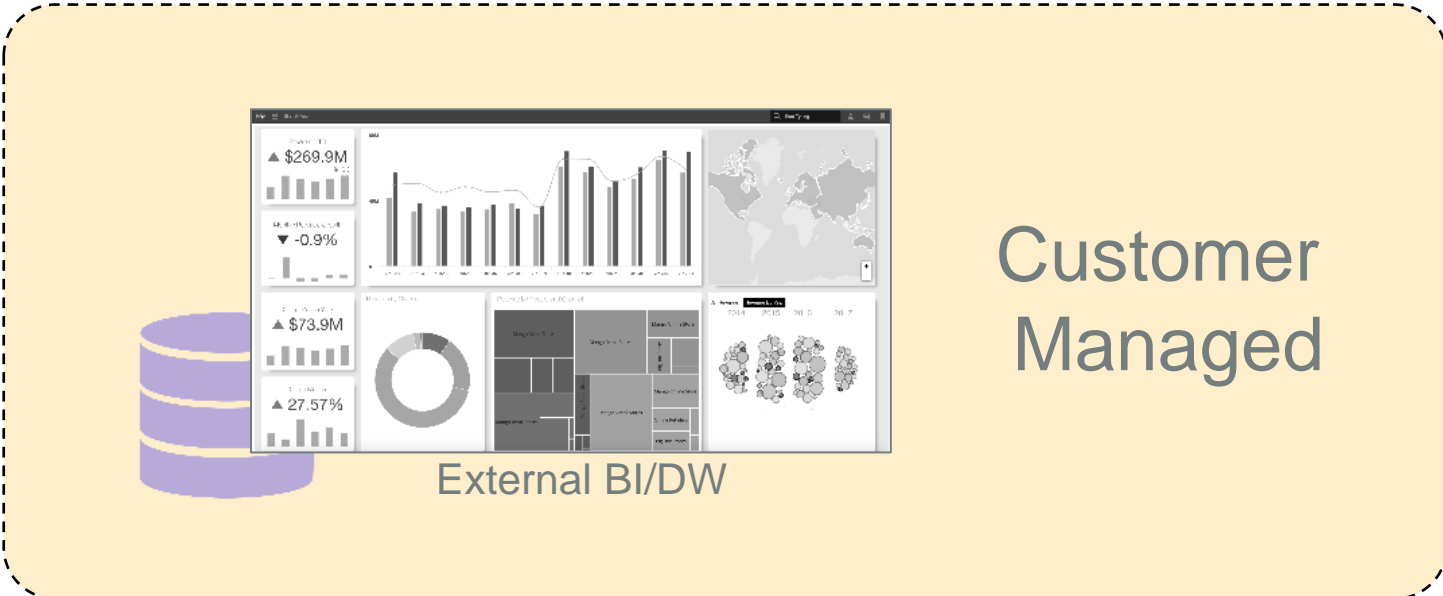
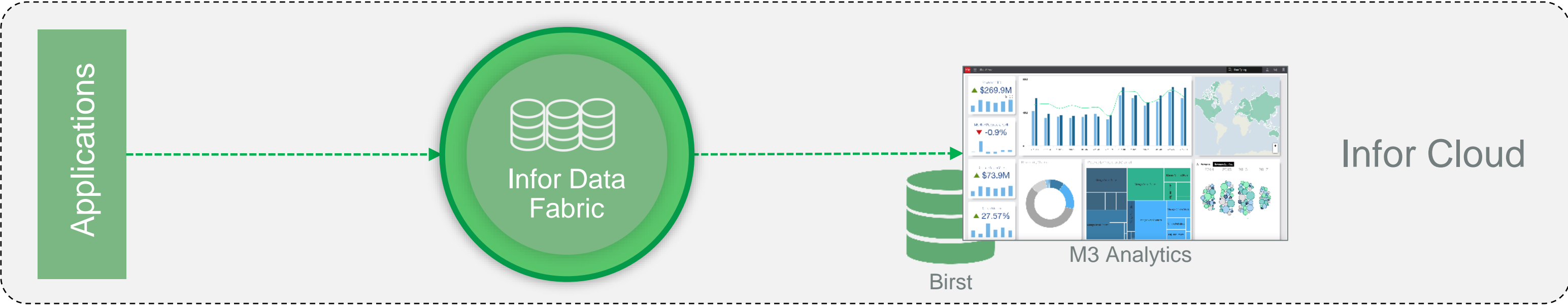
M3 Reporting Options



Data Lake – With M3 Analytics

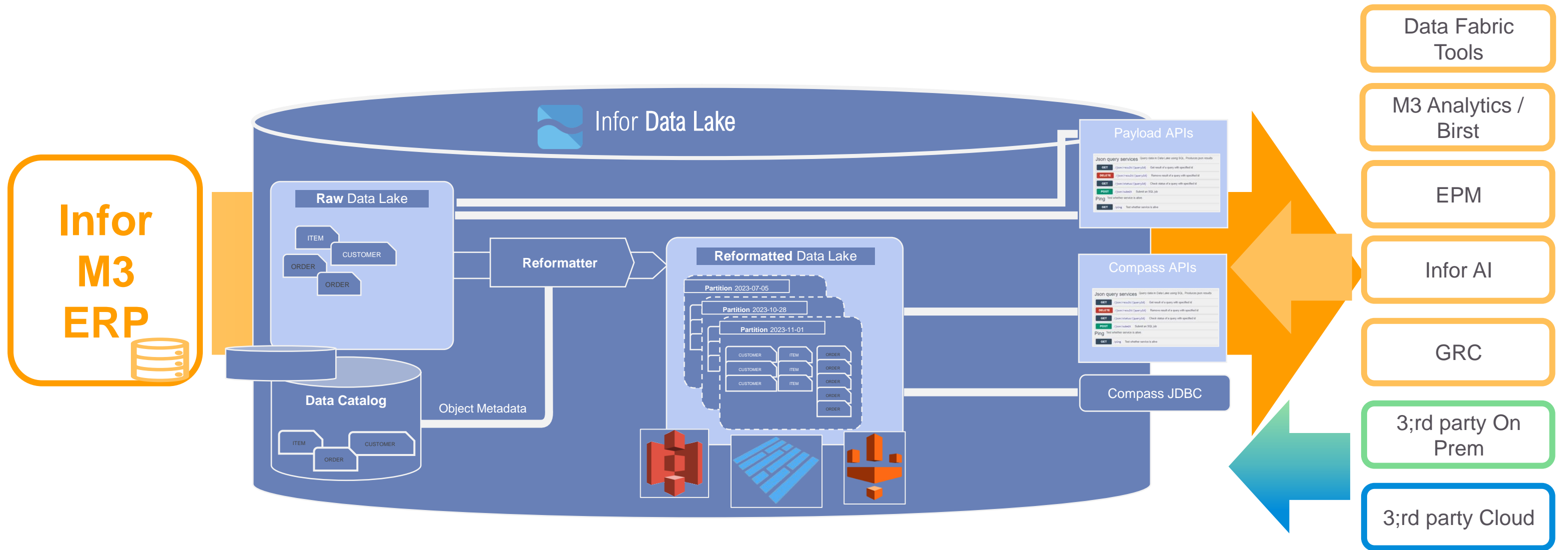


Data Lake – With external BI/DW



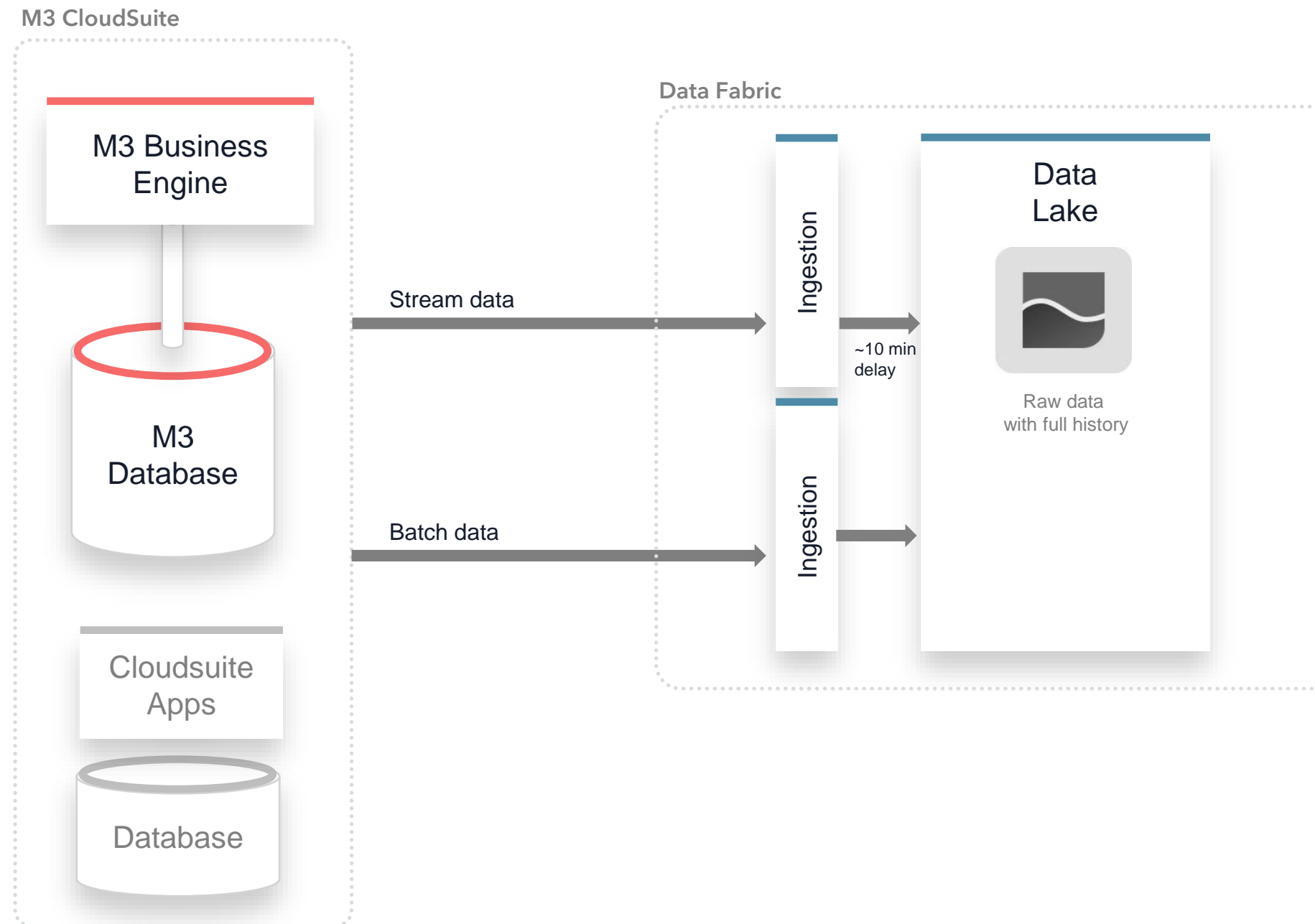
Data Fabric

Infor Data Management



M3 to Data Fabric

The screenshot shows the 'Data Lake Publisher' interface. On the left, there's a 'Document Subscriptions' panel with a search bar and a list of subscriptions like 'ACERTH: Approval Tag 0/(CH)'. The main area displays a REST client with a POST request to 'https://mingle-ionapi.inforcloudsuite.com/SLSGDENA011_TRN/M3/m3api-rest/v2/execute/'. The request body is a JSON object with 'program', 'maxReturnedRecords', and 'transactions' fields. The response body shows 'results' with transaction details and summary statistics like 'wasTerminated', 'nrOfSuccessfulTransactions', and 'nrOfFailedTransactions'.



M3 to Data Fabric

Atlas

OOHEAD (64 Data objects)

Details	Object ID	Indexed Date	Source Publication Date
<input type="checkbox"/>	1-fa83c479-c1f0-3ce3-9553-958a5b512bd7	Nov 17, 2022 1:31:33 PM	Nov 17, 2022 1:31:16 PM
<input type="checkbox"/>	1-d4eb7562-076b-3e00-a192-9a5331e808c8	Nov 17, 2022 1:33:36 PM	Nov 17, 2022 1:33:28 PM
<input type="checkbox"/>	1-50efbb3a-ca9e-365a-980f-a0fe8cefbe26	Nov 17, 2022 1:33:56 PM	Nov 17, 2022 1:33:38 PM
<input type="checkbox"/>	1-800fd180-9818-3b36-a1bb-07f541cc1886	Nov 17, 2022 1:33:56 PM	Nov 17, 2022 1:33:49 PM
<input type="checkbox"/>	1-81ac82e1-1762-3364-99dd-7586e6823592	Nov 17, 2022 1:34:36 PM	Nov 17, 2022 1:34:26 PM
<input type="checkbox"/>	1-79699f99-edcd-3cd1-b392-1ab5ac6427e4	Nov 17, 2022 1:34:57 PM	Nov 17, 2022 1:34:40 PM
<input checked="" type="checkbox"/>	1-5d689e75-fae9-36c4-a007-3aa826b59204	Nov 17, 2022 2:41:24 PM	Nov 17, 2022 2:41:09 PM
<input type="checkbox"/>	1-debbd016-1b4e-3321-8bd4-c9e1bfcfed6f	Nov 17, 2022 3:00:37 PM	Nov 17, 2022 3:00:14 PM
<input type="checkbox"/>	1-2a579a13-9801-33c2-b861-4fa5e6414059	Nov 17, 2022 3:00:37 PM	Nov 17, 2022 3:00:03 PM
<input type="checkbox"/>	1-fa82be17-c802-3af6-b5ca-27bb717358da	Nov 17, 2022 3:01:28 PM	Nov 17, 2022 3:01:06 PM
<input type="checkbox"/>	1-20db4fdf-9c10-3cd5-85f7-e022bd391fbf	Nov 17, 2022 3:12:12 PM	Nov 17, 2022 3:11:55 PM
<input type="checkbox"/>	1-4aae29ab-35fa-3222-8e58-5024d49f3ec5	Nov 17, 2022 3:12:19 PM	Nov 17, 2022 3:12:08 PM
<input type="checkbox"/>	1-347f3076-ec88-373d-9a48-94e2d483a059	Nov 17, 2022 3:12:26 PM	Nov 17, 2022 3:12:21 PM
<input type="checkbox"/>	1-d4941cdc-9ca4-365f-aea1-cf16596da8b7	Nov 17, 2022 3:12:47 PM	Nov 17, 2022 3:12:33 PM
<input type="checkbox"/>	1-0dedbcff-0a61-3adb-bd8f-e349214fca8c	Nov 17, 2022 3:16:11 PM	Nov 17, 2022 3:16:04 PM
<input type="checkbox"/>	1-4efdef63-8e14-30ad-a4b5-3279a07eb032	Nov 17, 2022 3:17:19 PM	Nov 17, 2022 3:17:10 PM
<input type="checkbox"/>	1-f5b3951a-5ddb-32ef-a983-4f526c9360b0	Nov 17, 2022 3:17:57 PM	Nov 17, 2022 3:17:43 PM
<input type="checkbox"/>	1-13ac702f-2b8a-3f1f-8aad-f931b0bd3ebe	Nov 17, 2022 3:18:37 PM	Nov 17, 2022 3:18:21 PM
<input type="checkbox"/>	1-948a29be-8726-3729-873f-ee07d1f793a6	Nov 17, 2022 3:19:13 PM	Nov 17, 2022 3:19:04 PM
<input type="checkbox"/>	1-470a057c-9026-33cd-a7cf-9598551f2a5	Nov 17, 2022 3:37:37 PM	Nov 17, 2022 3:37:31 PM
<input type="checkbox"/>	1-4439af6f-0a96-3c35-8e23-8b0839de9af0	Nov 17, 2022 3:38:09 PM	Nov 17, 2022 3:37:59 PM
<input type="checkbox"/>	1-fcc4a772-b303-3c79-9e2b-447ec39944c0	Nov 17, 2022 3:38:16 PM	Nov 17, 2022 3:38:10 PM
<input type="checkbox"/>	1-4f8e3837-9857-38c1-977f-fa5e1d9a01e1	Nov 17, 2022 3:38:40 PM	Nov 17, 2022 3:38:25 PM
<input type="checkbox"/>	1-8d99f44d-df21-36f0-9a9f-7c2b416b1f8f	Nov 17, 2022 3:39:06 PM	Nov 17, 2022 3:39:00 PM
<input type="checkbox"/>	1-faf84e4c-5381-3550-he68-49147e19281a	Nov 17, 2022 3:39:26 PM	Nov 17, 2022 3:39:18 PM

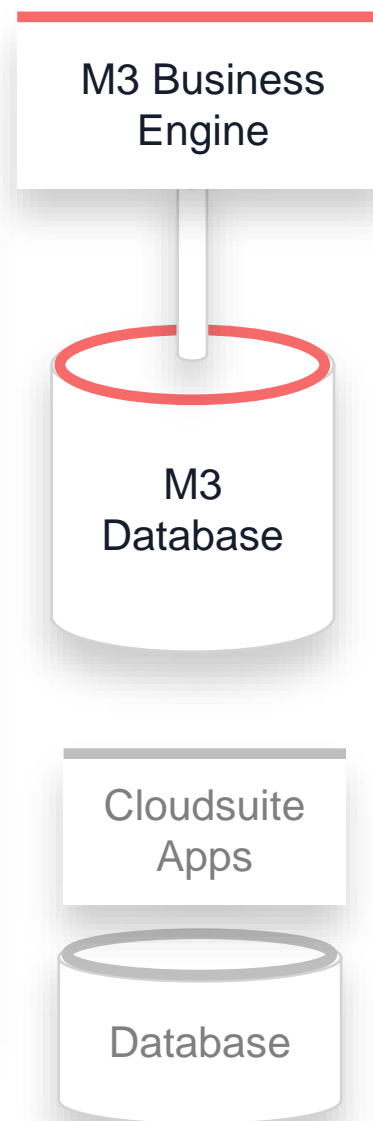
1-5d689e75-fae9-36c4-a007-3aa826b59204

```

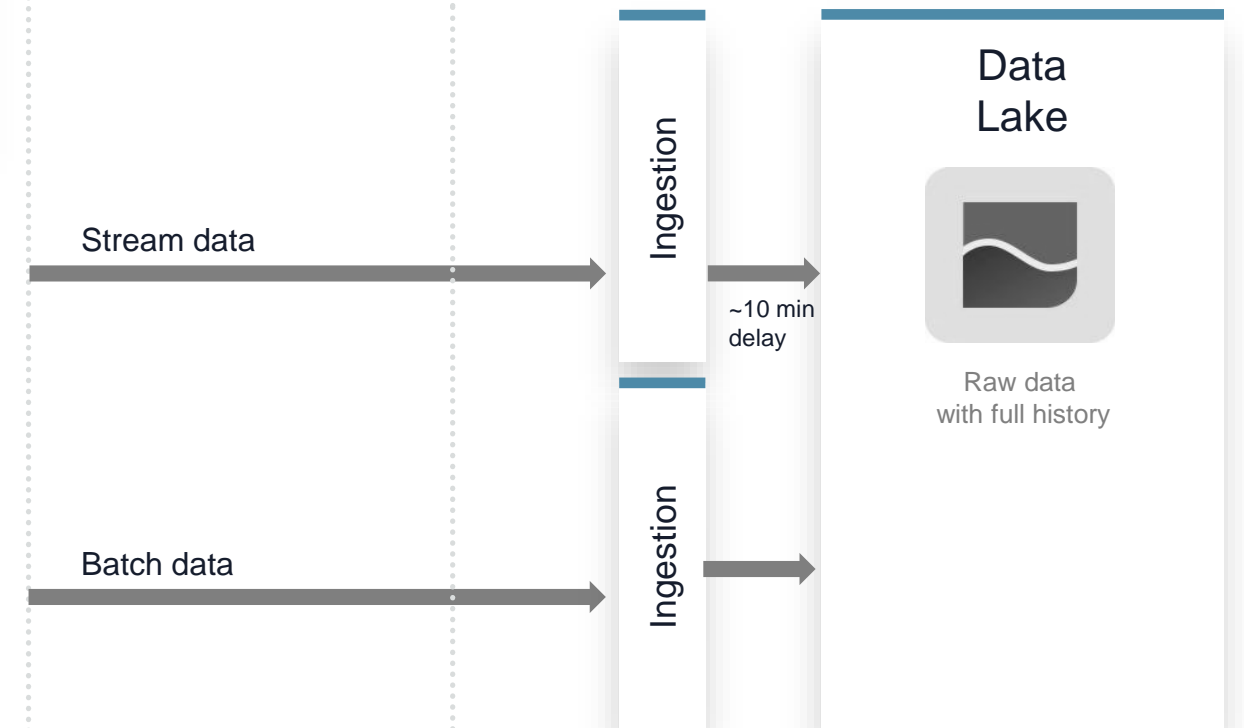
1 {"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01
2 {"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01
3 {"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01
4 {"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01
5

```

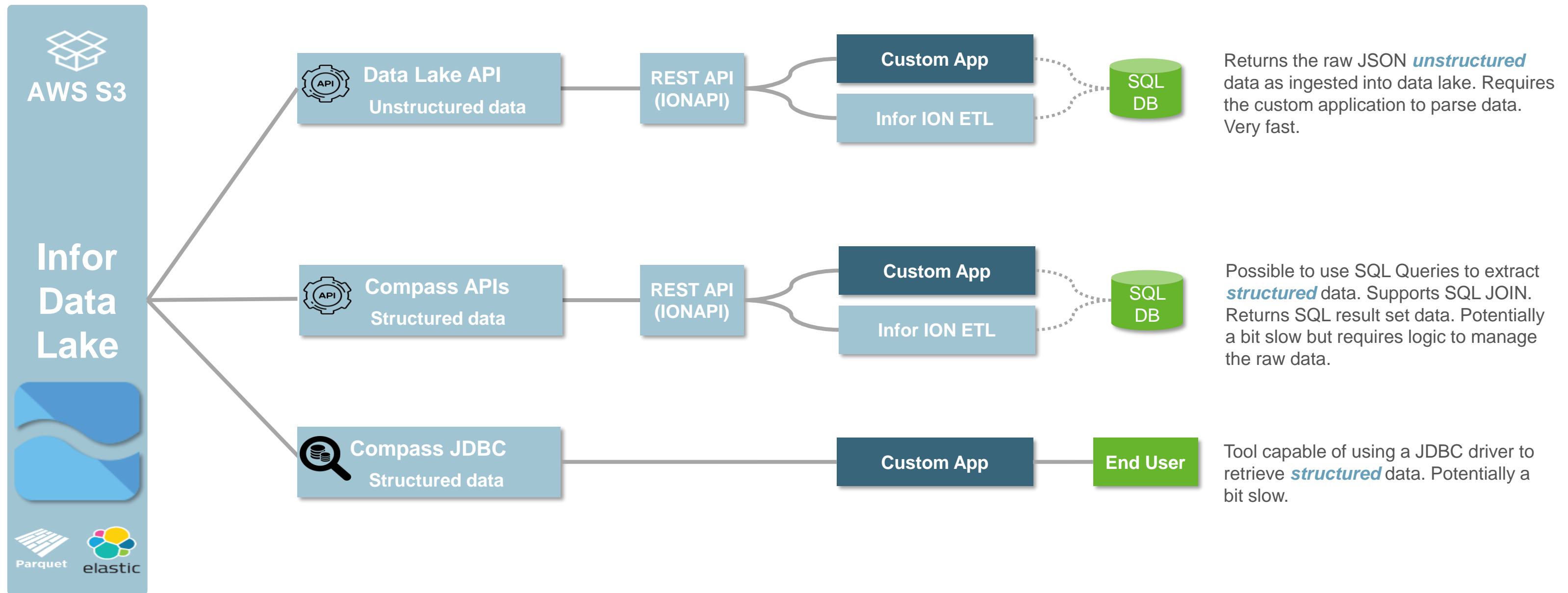
M3 CloudSuite



Data Fabric



Consumers Overview



Data Lake API 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

Headers (11)

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

Body

```
--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
time_in_transit: 15027
dl_source_publication_date: 2022-11-17T13:41:09.570Z
dl_channel: ion

{"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01","WHLO":"401","ORST":"20","ORSL":"20","CHL1":"","CHL2":"","CHL3":"","CHL4":"","CUNO":"75-JMDE001","ORDT":"202211210","CUOT":"202211210","RLDT":"RLDZ":"20221117","RLHZ":"1440","TIZO":"CET","DMDT":"0","CURD":"0","FDDT":"0","OPRI":"5","AICD":"0","OBLC":"0","ECTT":"0","OT38":"1","LNCD":"GB","TEPY":"N30","PYCD":"CSH","TECD":"","MODL":"003","TEDL":"DDP","TEL2":{... named f"ADID":"1","SMCD":"MATJ0A0","OFNO":"","OREF":"","YREF":"Contact 1","CUOR":"JM110_71","PROJ":"","ELNO":"","WCON":"","VRCD":"1","FRE1":"","PYNO":"75-JMDE001","INRC":"75-JMDE001","AGNO":"","BAGC":"","BAGD":"0","EXCD":"","TINC":"0","LOCD":"EUR","CUCD":"EUR","DCCD":"2","CRTP":"1","FECN":"","ARAT":"0.0","DMCU":"2","BREC":"","AGNT":"","GRWE":"0.65","NEWE":"0.65","VOL3":"0.13","COAM":"0","BRAM":"740.0","BRLA":"740.0","NTAM":"740.0","NTLA":"740.0","RPIV":"0","OTBA":"0.0","OTDP":"0.0","DICD":"0","CMPN":"","TOPR":"0","TBLG":"0.0","NBNS":"0","HOCD":"0","CHSY":"","ECLC":"","CPRE":"","HAFE":"","TAXC":"","JNA":"","JNU":"0","TXID":"0","PRTX":"0","POTX":"0","DTID":"0","ROUT":"","R"FDID":"20221117","LDED":"20221117","RESP":"MECSVC","SPLM":"","BLRO":"740.0","TXAP":"1","VTCD":"0","NREF":"","3RDP":"","IPAD":"","RGDT":"20221117","RGTM":"134058","LMDT":"20221117","CHNO":"2","CHID":"MECSVC","SCED":"0","LMTS":"166"CCAC":"","DECU":"75-JMDE001","VCTP":"0","PYRE":"","BKID":"","ABNO":"0","RASN":"","OIVR":"","OYEA":"0","MIGI":"","ICTR":"0","CHL5":"","CHL6":"","CHL7":"","CHL8":"","CHL9":"","TAGY":"","UCA1":"","UCA2":"","UCA3":"","UCA7":"","UCA8":"","UCA9":"","UCA0":"","UDN1":"0","UDN2":"0","UDN3":"0","UDN4":"0","UDN5":"0","UDN6":"0","UID1":"0","UID2":"0","UID3":"0","UCT1":"","PRP2":"0","accountingEntity":"400_DDD","variationNumber":"1330277186129","times"deleted":false}
{"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01","WHLO":"401","ORST":"22","ORSL":"22","CHL1":"","CHL2":"","CHL3":"","CHL4":"","CUNO":"75-JMDE001","ORDT":"202211210","CUOT":"202211210","RLDT":"RLDZ":"20221117","RLHZ":"1440","TIZO":"CET","DMDT":"0","CURD":"0","FDDT":"0","OPRI":"5","AICD":"0","OBLC":"0","ECTT":"0","OT38":"1","LNCD":"GB","TEPY":"N30","PYCD":"CSH","TECD":"","MODL":"003","TEDL":"DDP","TEL2":{... named f"ADID":"1","SMCD":"MATJ0A0","OFNO":"","OREF":"","YREF":"Contact 1","CUOR":"JM110_71","PROJ":"","ELNO":"","WCON":"","VRCD":"1","FRE1":"","PYNO":"75-JMDE001","INRC":"75-JMDE001","AGNO":"","BAGC":"","BAGD":"0","EXCD":"","TINC":"0","LOCD":"EUR","CUCD":"EUR","DCCD":"2","CRTP":"1","FECN":"","ARAT":"0.0","DMCU":"2","BREC":"","AGNT":"","GRWE":"0.65","NEWE":"0.65","VOL3":"0.13","COAM":"0","BRAM":"740.0","BRLA":"740.0","NTAM":"740.0","NTLA":"740.0","RPIV":"0","OTBA":"0.0","OTDP":"0.0","DICD":"0","CMPN":"","TOPR":"0","TBLG":"0.0","NBNS":"0","HOCD":"0","CHSY":"","ECLC":"","CPRE":"","HAFE":"","TAXC":"","JNA":"","JNU":"0","TXID":"0","PRTX":"0","POTX":"0","DTID":"0","ROUT":"","R"FDID":"20221117","LDED":"20221117","RESP":"MECSVC","SPLM":"","BLRO":"740.0","TXAP":"1","VTCD":"0","NREF":"","3RDP":"","IPAD":"","RGDT":"20221117","RGTM":"134058","LMDT":"20221117","CHNO":"2","CHID":"MECSVC","SCED":"0","LMTS":"166"CCAC":"","DECU":"75-JMDE001","VCTP":"0","PYRE":"","BKID":"","ABNO":"0","RASN":"","OIVR":"","OYEA":"0","MIGI":"","ICTR":"0","CHL5":"","CHL6":"","CHL7":"","CHL8":"","CHL9":"","TAGY":"","UCA1":"","UCA2":"","UCA3":"","UCA7":"","UCA8":"","UCA9":"","UCA0":"","UDN1":"0","UDN2":"0","UDN3":"0","UDN4":"0","UDN5":"0","UDN6":"0","UID1":"0","UID2":"0","UID3":"0","UCT1":"","PRP2":"0","accountingEntity":"400_DDD","variationNumber":"1330277271416","times"deleted":false}
```

Atlas

OOHEAD (64 Data objects)

Object ID	Indexed Date	Source Publication Date
1-fa83c479-c1f0-3ce3-9553-958a5b512bd7	Nov 17, 2022 1:31:33 PM	Nov 17, 2022 1:31:16 PM
1-d4eb7562-076b-3e00-a192-9a5331e808c8	Nov 17, 2022 1:33:36 PM	Nov 17, 2022 1:33:28 PM
1-50efb3a-ca9e-365a-980f-a0fe8cfbe26	Nov 17, 2022 1:33:56 PM	Nov 17, 2022 1:33:38 PM
1-800fd180-9818-3b36-a1bb-07541cc1886	Nov 17, 2022 1:33:56 PM	Nov 17, 2022 1:33:49 PM
1-81ac82e1-1762-3364-99dd-7586e6823592	Nov 17, 2022 1:34:36 PM	Nov 17, 2022 1:34:26 PM
1-7969999-edcd-3cd1-b392-1ab5ac6427e4	Nov 17, 2022 1:34:57 PM	Nov 17, 2022 1:34:40 PM
1-5d689e75-fae9-36c4-a007-3aa826b59204	Nov 17, 2022 2:41:24 PM	Nov 17, 2022 2:41:09 PM
1-debbd016-1b4e-3321-8bd4-c9e1bfcfed6f	Nov 17, 2022 3:00:37 PM	Nov 17, 2022 3:00:14 PM
1-2a579a13-9801-33c2-b861-4fa5e6414059	Nov 17, 2022 3:00:37 PM	Nov 17, 2022 3:00:03 PM
1-fa82be17-c802-3af6-b5ca-27bb717358da	Nov 17, 2022 3:01:28 PM	Nov 17, 2022 3:01:06 PM
1-20db4df-9c10-3cd5-85f7-e022bd391bf	Nov 17, 2022 3:12:12 PM	Nov 17, 2022 3:11:55 PM
1-4aae29ab-35fa-3222-8e58-5024d49f3ec5	Nov 17, 2022 3:12:19 PM	Nov 17, 2022 3:12:08 PM
1-347f3076-ec88-373d-9a40-94e2d483a059	Nov 17, 2022 3:12:26 PM	Nov 17, 2022 3:12:21 PM
1-d4941cdc-9ca4-365f-ae1-cf16596da8b7	Nov 17, 2022 3:12:47 PM	Nov 17, 2022 3:12:33 PM
1-0dedbcff-0a61-3adb-bd8f-e349214fca8c	Nov 17, 2022 3:16:11 PM	Nov 17, 2022 3:16:04 PM
1-4efdef63-8e14-30ad-a4b5-3279a07eb032	Nov 17, 2022 3:17:19 PM	Nov 17, 2022 3:17:10 PM
1-f5b3951a-5ddb-32ef-a983-4f526c9360b0	Nov 17, 2022 3:17:57 PM	Nov 17, 2022 3:17:43 PM
1-13ac702f-2b8a-3f1f-8aad-f931b0bd3e8e	Nov 17, 2022 3:18:37 PM	Nov 17, 2022 3:18:21 PM
1-948a29be-8726-3729-873f-ee07d1f793a6	Nov 17, 2022 3:19:13 PM	Nov 17, 2022 3:19:04 PM
1-470a057c-9026-33cd-a7cf-959855512a5	Nov 17, 2022 3:37:37 PM	Nov 17, 2022 3:37:31 PM
1-4439af6f-0a96-3c35-8e23-8b0839de9af0	Nov 17, 2022 3:38:09 PM	Nov 17, 2022 3:37:59 PM
1-fcc4a772-b303-3c79-9e2b-447ec39944c0	Nov 17, 2022 3:38:16 PM	Nov 17, 2022 3:38:10 PM
1-4f8e3837-9857-38c1-977f-fa5e1d9a01e1	Nov 17, 2022 3:38:40 PM	Nov 17, 2022 3:38:25 PM
1-8d99f44d-df21-36f0-9a9f-7c2b416b1f8f	Nov 17, 2022 3:39:06 PM	Nov 17, 2022 3:39:00 PM
1-faf84c4c-5381-3550-hc68-49147e19281a	Nov 17, 2022 3:39:26 PM	Nov 17, 2022 3:39:18 PM

Content

```
1 {"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01"}
2 {"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01"}
3 {"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01"}
4 {"CONO":400,"DIVI":"DDD","ORNO":"0010003673","ORTP":"F70","FACI":"D01"}
5
```

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 smaller filters 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



Sends unstructured data from Data Lake

- Scheduled
- Sends via ION Connection point

Data Lake Flow zJMTTestETL

REMOVE CONNECTION POINTS

Retrieve Query Ingest Application Database Network File API Message Queue Stream Mapping Splitter Script

Filter

Start

Retrieve from Properties

OOHEAD/

Objects Properties

Objects (1) Info

Find objects by prefix

Name	Type	Last modified	Size	Storage class
2024-12-18T06:15:14.091Z_1b14b1f50f904380bec45eec1969b2f8.json	json	December 18, 2024, 07:15:15 (UTC+01:00)	9.4 KB	Standard

```
{ "CONO": 750, "DIVI": "AAA", "ORNO": "0010000256", "ORTP": "D90", "FACI": "A03", "WHLO": "003", "ORST": "003" }
{ "CONO": 750, "DIVI": "AAA", "ORNO": "0010000256", "ORTP": "D90", "FACI": "A03", "WHLO": "003", "ORST": "003" }
{ "CONO": 750, "DIVI": "AAA", "ORNO": "0010000256", "ORTP": "D90", "FACI": "A03", "WHLO": "003", "ORST": "003" }
{ "CONO": 750, "DIVI": "AAA", "ORNO": "0010000256", "ORTP": "D90", "FACI": "A03", "WHLO": "003", "ORST": "003" }
```

Basic Scheduling

Trigger every 5 minutes

Next three scheduled triggers at UTC are:
Apr 4, 2024, 6:05:00 PM
Apr 4, 2024, 6:10:00 PM
Apr 4, 2024, 6:15:00 PM

Data Lake Egress

SQL possibility for testing purposes



Compass

Tab #6

Run query

```
1 --*includeAllVariations=OOLINE
2 SELECT h.ORN0 as OrderNumber, h.CUN0 as Customer, 1.PONR as LineNumber, 1.ITNO as Item, 1.ORQT as Quantity, 1.SAPR Price, 1.LMDT ChnageDate, 1.deleted DeletedRecord
3 FROM OOHEAD h
4 JOIN OOLINE 1 on h.CONO = 1.CONO and h.ORN0 = 1.ORN0
5 WHERE
6 h.CONO = 400 AND h.LMDT = 20221117 AND h.CUN0='75-JMDE001'
7 ORDER BY h.ORN0, 1.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	1.0000000000000000	40.0000000000000000	20221117	false
2	0010003673	75-JMDE001	1	75-JM002	1.0000000000000000	40.0000000000000000	20221117	false
3	0010003673	75-JMDE001	2	75-JM003	2.0000000000000000	50.0000000000000000	20221117	false
4	0010003673	75-JMDE001	2	75-JM003	2.0000000000000000	50.0000000000000000	20221117	false
5	0010003673	75-JMDE001	3	75-JM004	10.0000000000000000	60.0000000000000000	20221117	false
6	0010003673	75-JMDE001	3	75-JM004	10.0000000000000000	60.0000000000000000	20221117	false
7	0010003681	75-JMDE001	1	75-JM002	1.0000000000000000	40.0000000000000000	20221117	false
8	0010003681	75-JMDE001	1	75-JM002	1.0000000000000000	40.0000000000000000	20221117	false
9	0010003681	75-JMDE001	2	75-JM003	2.0000000000000000	50.0000000000000000	20221117	false
10	0010003681	75-JMDE001	2	75-JM003	2.0000000000000000	50.0000000000000000	20221117	false
11	0010003681	75-JMDE001	3	75-JM004	10.0000000000000000	60.0000000000000000	20221117	false
12	0010003681	75-JMDE001	3	75-JM004	10.0000000000000000	60.0000000000000000	20221117	false
13	0010003682	75-JMDE001	1	75-JM002	1.0000000000000000	40.0000000000000000	20221117	false
14	0010003682	75-JMDE001	1	75-JM002	1.0000000000000000	40.0000000000000000	20221117	false
15	0010003682	75-JMDE001	2	75-JM003	2.0000000000000000	50.0000000000000000	20221117	false
16	0010003682	75-JMDE001	2	75-JM003	2.0000000000000000	50.0000000000000000	20221117	false
17	0010003682	75-JMDE001	3	75-JM004	10.0000000000000000	60.0000000000000000	20221117	false
18	0010003682	75-JMDE001	3	75-JM004	10.0000000000000000	60.0000000000000000	20221117	false

Data Lake Compass API Egress

SQL REST API call



Compass APIs
Structured data

The image displays three overlapping screenshots of a REST client interface, illustrating the process of querying data from a Data Lake Compass API.

Left Window (POST): Shows a SQL query being executed. The query is a SELECT statement with various filters and a JOIN.

```
1 --*includeAllVariations=00LINE
2 select
3   h.ORNO,
4   h.CUNO,
5   l.PONR,
6   l.ITNO,
7   l.ORQT,
8   l.SAPR,
9   l.LMDT,
10  l.deleted
11 from
12   OOHEAD h
13   JOIN OOLINE l on h.CONO = l.CONO
14   and h.ORNO = l.ORNO
15 where
16   h.CONO = 400
17   and h.LMDT = 20221117
18
```

Middle Window (GET): Shows the response body in JSON format, indicating the query status and location.

```
1 {
2   "status": "RUNNING",
3   "location": "jobs/nCgNWLnhbvDh5NsgqHm9/status",
4   "queryId": "nCgNWLnhbvDh5NsgqHm9"
5 }
```

Right Window (GET): Shows the response body in JSON format, indicating the query status and location, and a list of columns.

```
1 {
2   "status": "FINISHED",
3   "location": "result",
4   "queryId": "nCgNWLnhbvDh5NsgqHm9",
5   "rowCount": 417,
6   "columns": [
7     {
8       "name": "ORNO",
9       "datatype": "String"
10    },
11    {
12     "name": "CUNO",
13     "datatype": "String"
14    }
15  ]
16 }
```

Bottom Right Window (GET): Shows the response body in JSON format, indicating the query status and location, and a list of columns.

```
1 {
2   "ORNO": "0010003663",
3   "CUNO": "U7210",
4   "PONR": "1",
5   "ITNO": "YPA1003",
6   "ORQT": "369.0000000000000000",
7   "SAPR": "382.9000000000000000",
8   "LMDT": "20221117",
9   "deleted": "false"
10 }
11
12 {
13   "ORNO": "0010003663",
14   "CUNO": "U7210",
15   "PONR": "1",
16   "ITNO": "YPA1003",
17   "ORQT": "369.0000000000000000",
18   "SAPR": "382.9000000000000000",
19   "LMDT": "20221117",
20   "deleted": "false"
21 }
22
23 {
24   "ORNO": "0010003663",
25   "CUNO": "U7210",
26   "PONR": "1",
27   "ITNO": "YPA1003",
28   "ORQT": "369.0000000000000000",
29   "SAPR": "382.9000000000000000",
30   "LMDT": "20221117",
31   "deleted": "false"
32 }
```

Data Lake Compass API Egress

SQL query using the JDBC driver



The screenshot shows the Infor DataLake interface with a SQL query editor and a results grid. The query is as follows:

```
select ol.orno, ol.cuno, ol.orst, ol.ponr, ol.itno
from (select top 3 * from OOHEAD where CONO=400 order by timestamp desc) oh
JOIN "default".ooline ol on oh.cono = ol.cono and oh.orno=ol.orno
where oh.cono=400 order by oh.orno, ol.ponr
```

The results are displayed in a grid view with the following data:

Grid	ABC orno	ABC cuno	ABC orst	123 ponr	ABC itno
1	4003113821	75-JMSE01	44	1	75-JM001
2	4003113821	75-JMSE01	44	2	75-JM002
3	4003113821	75-JMSE01	44	3	75-JM003
4	4003113847	75-JMSE01	44	1	75-JM001
5	4003113847	75-JMSE01	44	2	75-JM002
6	4003113847	75-JMSE01	44	3	75-JM003
7	4003113848	75-JMSE01	44	1	75-JM001
8	4003113848	75-JMSE01	44	2	75-JM002
9	4003113848	75-JMSE01	44	3	75-JM003

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

The screenshot displays the Infor ETL Tool interface for a job named 'SalesOrderSync'. The top-left pane shows the job design with a flowchart of steps: Check_OOHEAD, Get_OOHEAD, Write_OOHEAD; Check_OOLINE, Get_OOLINE, Write_OOLINE; Get_EXTJMO, Write_EXTJMO; Get_OCUSMA, Write_OCUSMA; Check_MITMAS, Get_MITMAS, Write_MITMAS. The bottom-right pane shows the 'Execution Results' table.

#	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_EXTJMO	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_EXTJMO	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_EXTJMO	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

```

1 ITEM, COLOR
2 75-JM001,Blue
3 75-JM002,Red
4 75-JM003,Yellow
5 75-JM004,Black
6 75-JM005,White
    
```

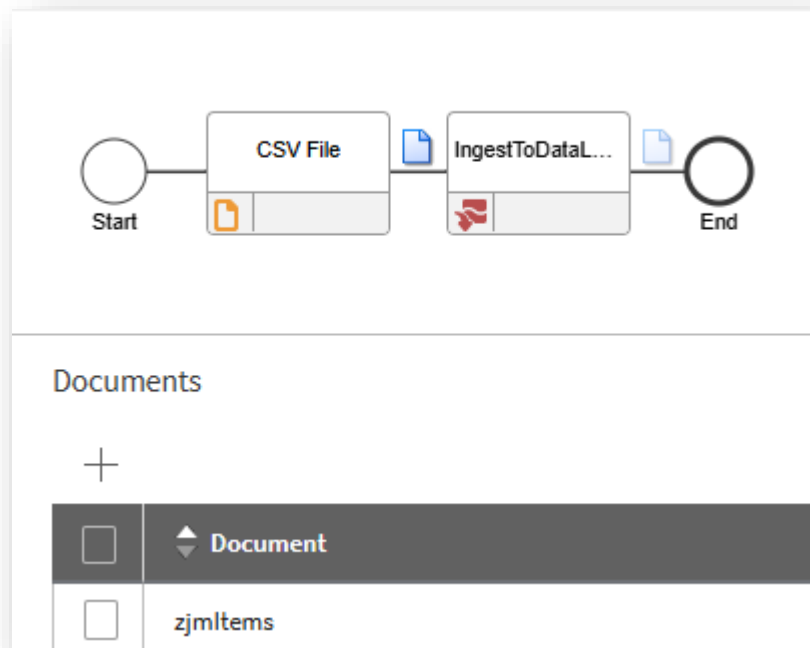
The Atlas interface shows a search for 'zjmi' resulting in a data object 'zjmItems' (1 Data objects). The details table shows:

Details	Object ID	Channel	Indexed date
→	2012-22e23901-674a-3604-a8d5-d4596b0281fc	ION	21 jan. 2025 15:03:14

The content tab shows the following data:

```

1 ITEM, COLOR
2 75-JM001,Blue
3 75-JM002,Red
4 75-JM003,Yellow
5 75-JM004,Black
6 75-JM005,White
    
```



The Atlas Upload interface shows a 'Drag and drop here or upload files to upload' area. Below this, there is an 'Object Name' field with 'zjmItems' entered and an upload button. Links for 'Atlas' and 'Data Catalog' are visible at the bottom.

The Compass interface shows a query being run. The query is:

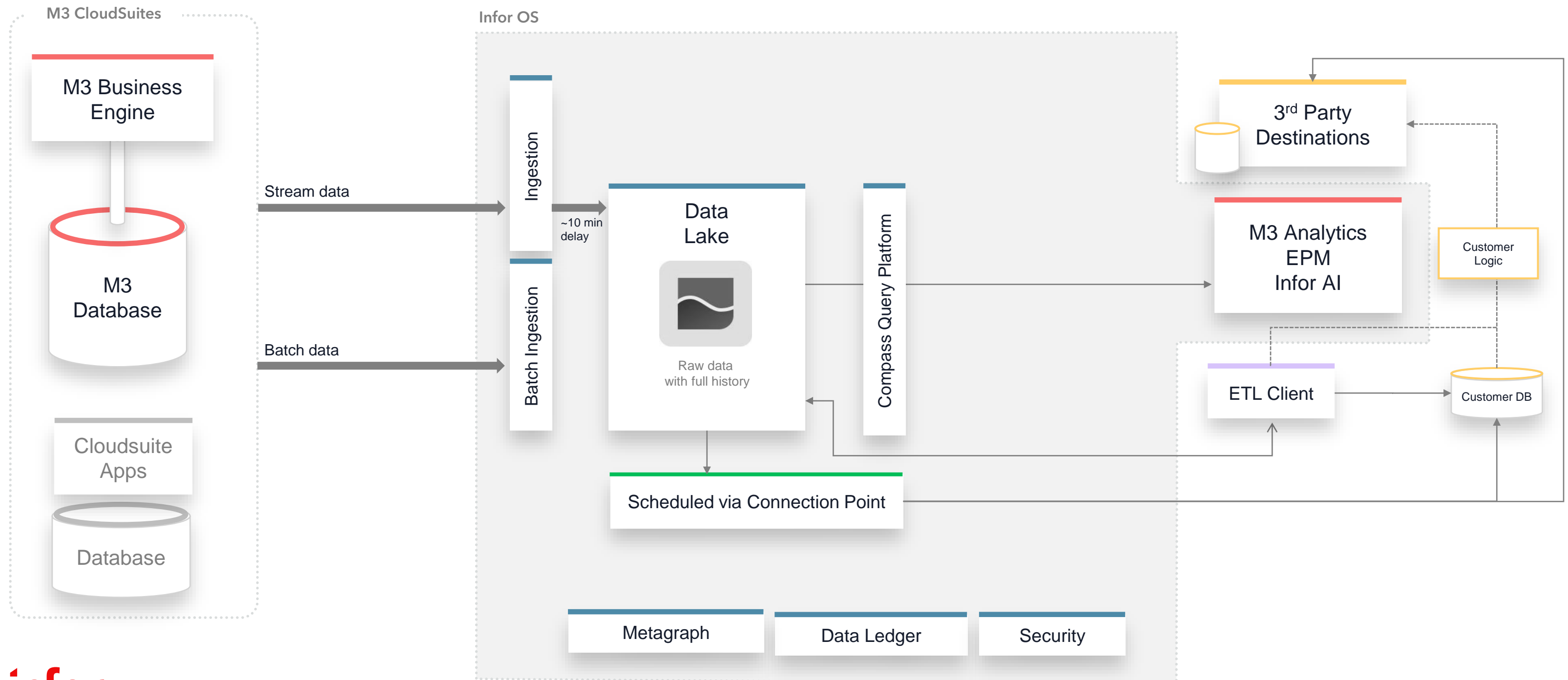
```

1 select m.ITNO, m.ITDS, z.COLOR
2 from MITMAS m JOIN zjmItems z
3 on m.ITNO=z.ITEM
    
```

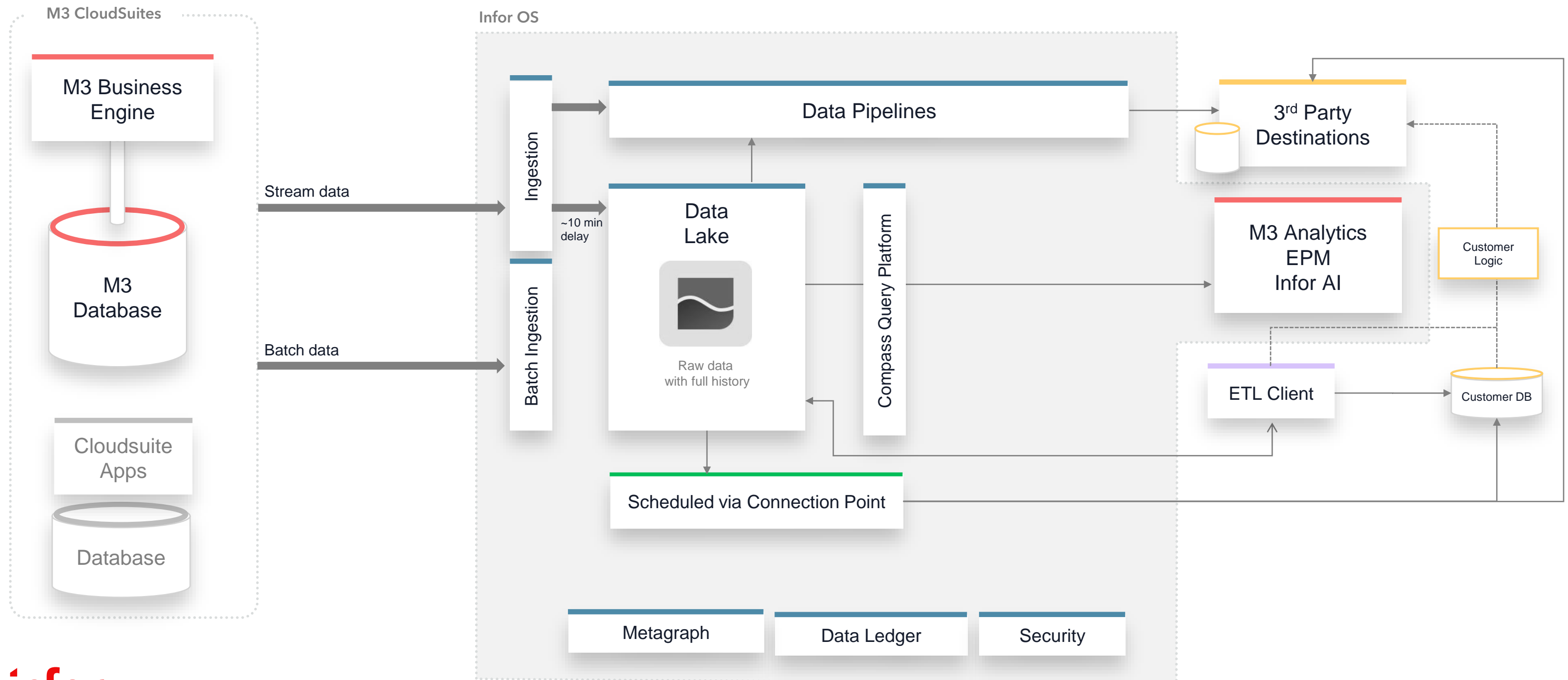
The results table shows 5 rows:

	ITNO	ITDS	COLOR
1	75-JM003	Powerpoint clickers	Yellow
2	75-JM001	7.5 Amp 1/2 in. Hole Hawk1	Blue
3	75-JM002	Fire truck	Red
4	75-JM004	Paper cuts	Black
5	75-JM005	Plastic mug	White

M3 and Data Fabric



M3 and Data Fabric



Streaming example

The screenshot displays two overlapping windows from the Infor DataLake interface. The top window shows a SQL script: `select * from "MITMAS" ma order by timestamp desc limit 20;`. Below the script is a data grid with 20 rows and 6 columns: 123 CONO, ABC ITNO, ABC STAT, ABC ITDS, ABC FUDS, and ABC DWNO. The bottom window shows a similar SQL script: `select * from "MITMAS_ALL" ma order by timestamp desc limit 20;`. Below it is a data grid with 20 rows and 7 columns: 123 CONO, ABC ITNO, ABC STAT, ABC ITDS, ABC FUDS, ABC DWNO, and ABC RE. The data in both grids is sorted by timestamp in descending order.

	123 CONO	ABC ITNO	ABC STAT	ABC ITDS	ABC FUDS	ABC DWNO	ABC RE
1	400	75-JM151677	90	Programming for Absolute Begin	Using the JavaScript		MATJ
2	400	75-JM602775	90	Generative AI with Python and	Harness the power		MATJ
3	400	75-JM262209	90	Programming for Absolute Begin	Using the JavaScript		MATJ
4	400	75-JM121377	90	Mastering the Lightning Networ	A Second Layer Blo		MATJ
5	400	75-JM005	20	Plastic mug	Plastic mug		MATJ
6	400	75-JM004	20	Paper cuts	Paper cuts		MATJ
7	400	75-JM001	20	7.5 Amp 1/2 in. Hole Hawk1	7.5 Amp 1/2 in. Hol		MATJ
8	400	75-1128BT	20	New item added 231207	Equinor extends its		MATJ
9	400	75-JMDO001	90	Test Item	Test item - Very goo		MATJ
10	400	75-JMTEST10	20	Small plastic Christmas Tree	Christmas Tree		MATJ
11	400	100000501	20	Plasterboard 9.5mm 1200X800 Sq	Knauf Baseboard Sq		MATJ
12	400	75-JMCO001	90	Test Item	Test item - Very goo		MATJ
13	400	75-JMCO002	90	The best of items	CO item		MATJ
14	400	75-JMCO003	90	The best of items	CO item		MATJ
15	400	75-1221BT	09	New Demo	75-1128BT		MATJ
16	400	75-JMTEST20	20	Small plastic Christmas Tree	Christmas Tree		MATJ
17	400	75-JMTEST19	90	Small plastic Christmas Tree	Christmas Tree		MATJ
18	400	KD-1002B	99	Post-IT multi-colour block B	Post-IT multi-colou		MATJ
19	400	KD-1002	99	Post-IT multi-colour block	Post-IT multi-colou		MATJ
20	400	75-JM274083	90	Generative Deep Learning, 2nd	Teaching Machines		MATJ

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*

This presentation reflects the direction Infor may take with regard to the products or services described herein, all of which is subject to change without notice. This presentation is not a commitment to you in any way and you should not rely on any content herein in making any decision.

Infor is not committing to develop or deliver any specified enhancement, upgrade, product, service or functionality, even if such is described herein. Many factors can affect Infor's product development plans and the nature, content and timing of future product releases, all of which remain in the sole discretion of Infor. This presentation, in whole or in part, may not be incorporated into any agreement. Infor expressly disclaims any liability with respect to this presentation.

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.



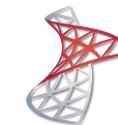
Amazon Aurora PostgreSQL



Azure Database for PostgreSQL



Snowflake



Amazon RDS SQL Server and Azure SQL*



Amazon Redshift*

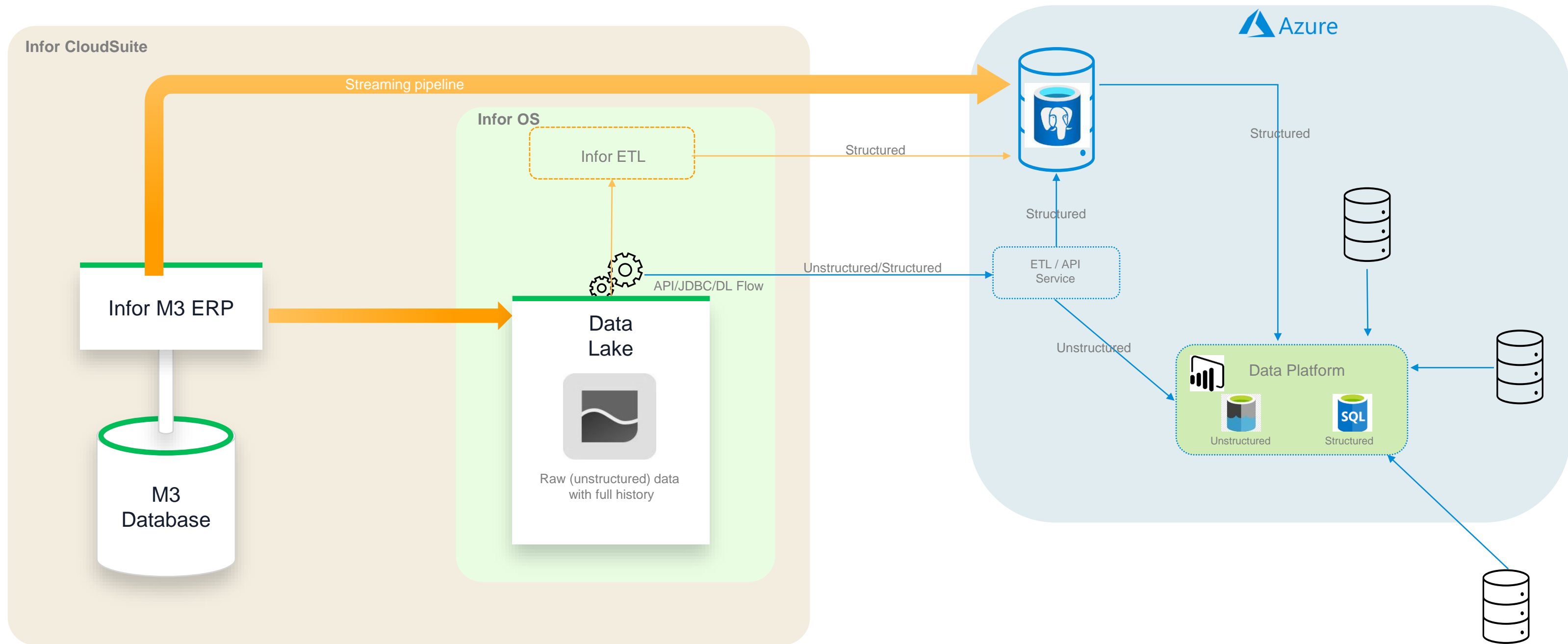


Streaming platforms*

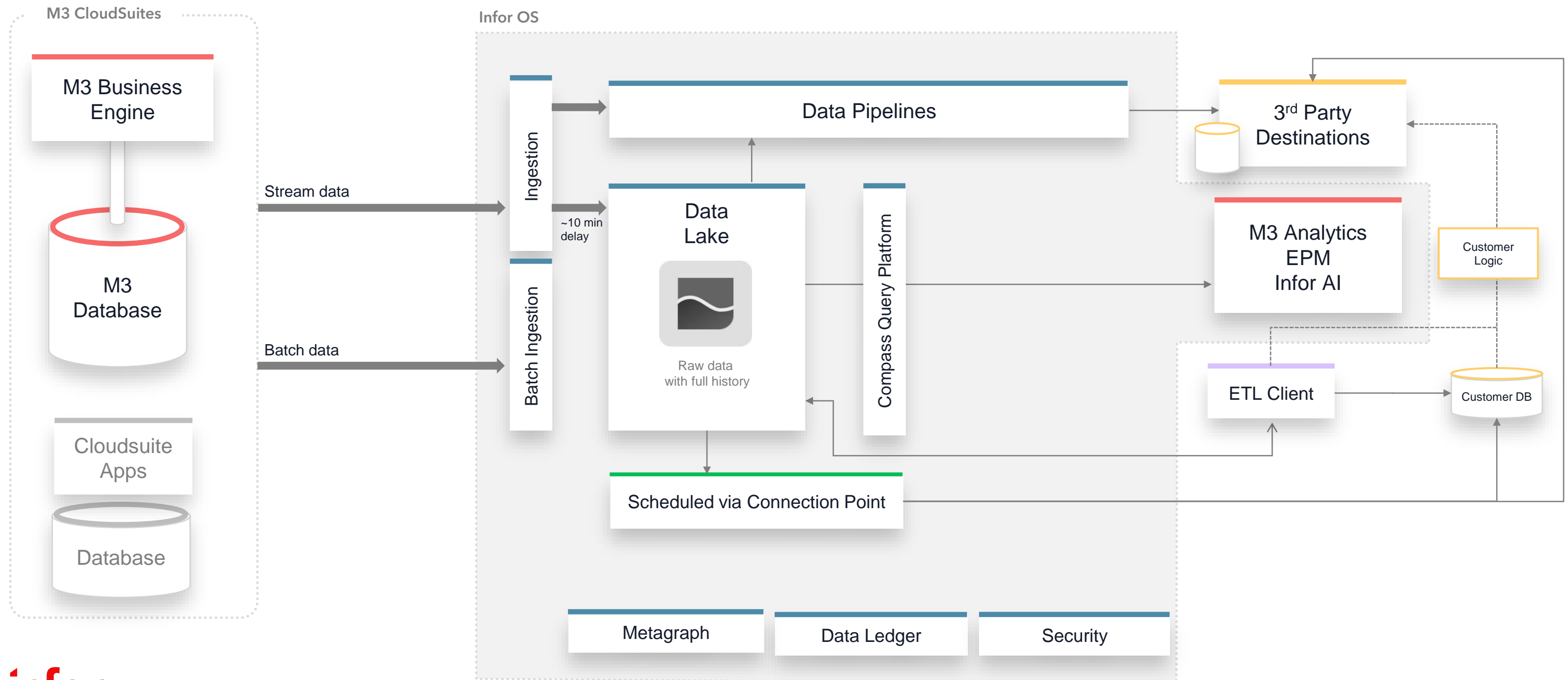


Any storage*

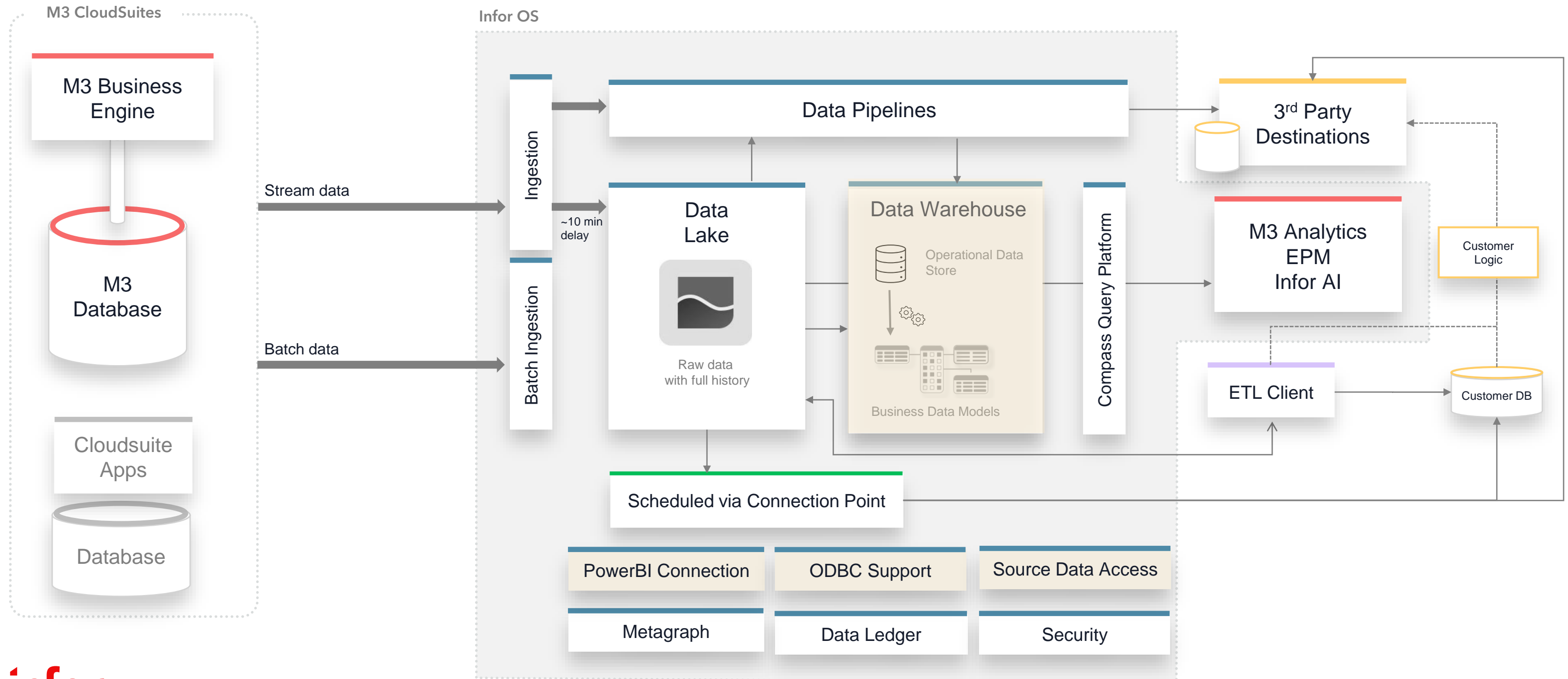
Current state



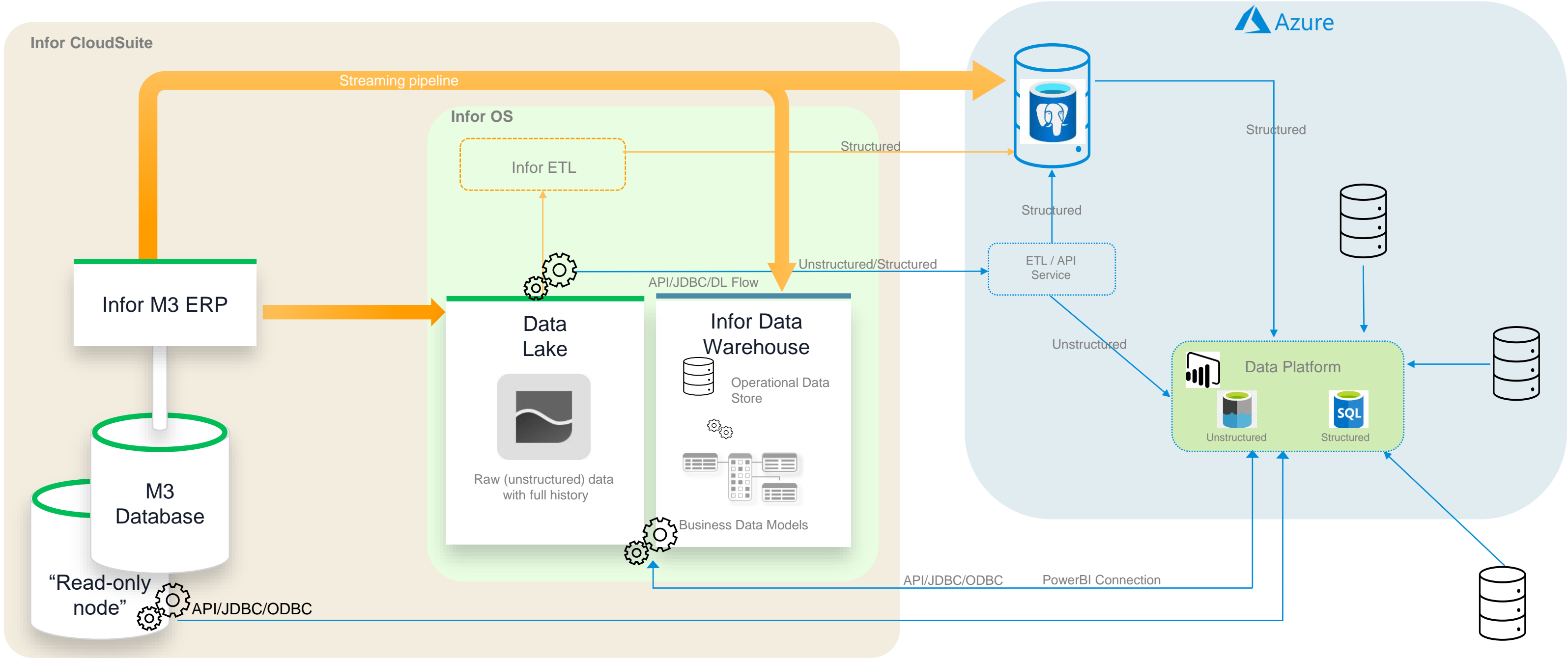
M3 and Data Fabric



M3 and Data Fabric 2025+



Roadmap items








M3 Data Lake Publisher - Table Groups

Organizing your selections of data to publish

Tables Configuration

Table Group

Conformed Dimensions + 

Tables to Publish    

Available →	Selected ←
<input type="text" value="Search Available"/>	<input type="text" value="Search Selected"/>
ACLHED : Claim Header (AZ)	MITMAS : Item Master
ACLSPC : Claim Spec (AZ)	OCUSMA : Customer
ACLTYP : Claim Type	CSYTAB : System tables file
ACLVER : Weight and Volume Information	CFACIL : Facility master
ACREWI : Crew Information 0/(FW)	
ACSALS : Simulation Agreement summary 0/(SS)	
ACUACC : Invoice accounting 1/(UT)	

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

infor[®]

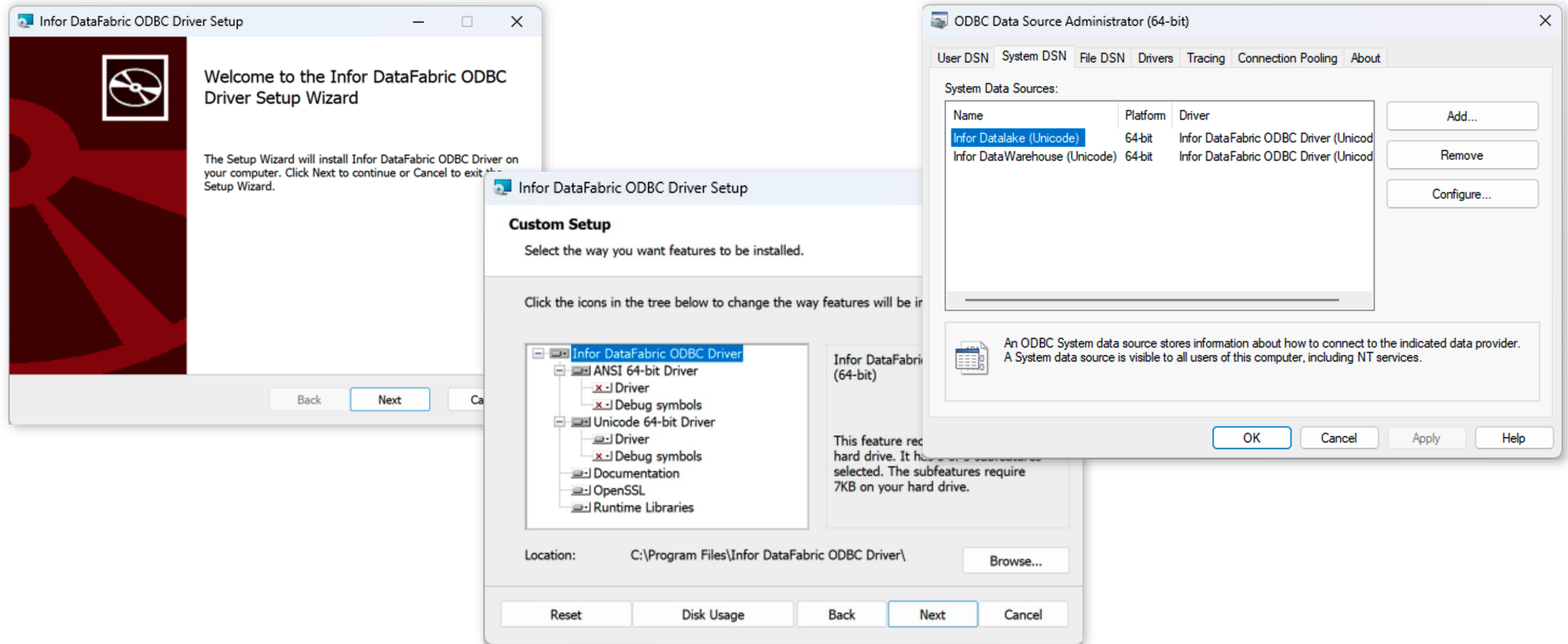
Joakim Mattsson

Infor Solution Consulting

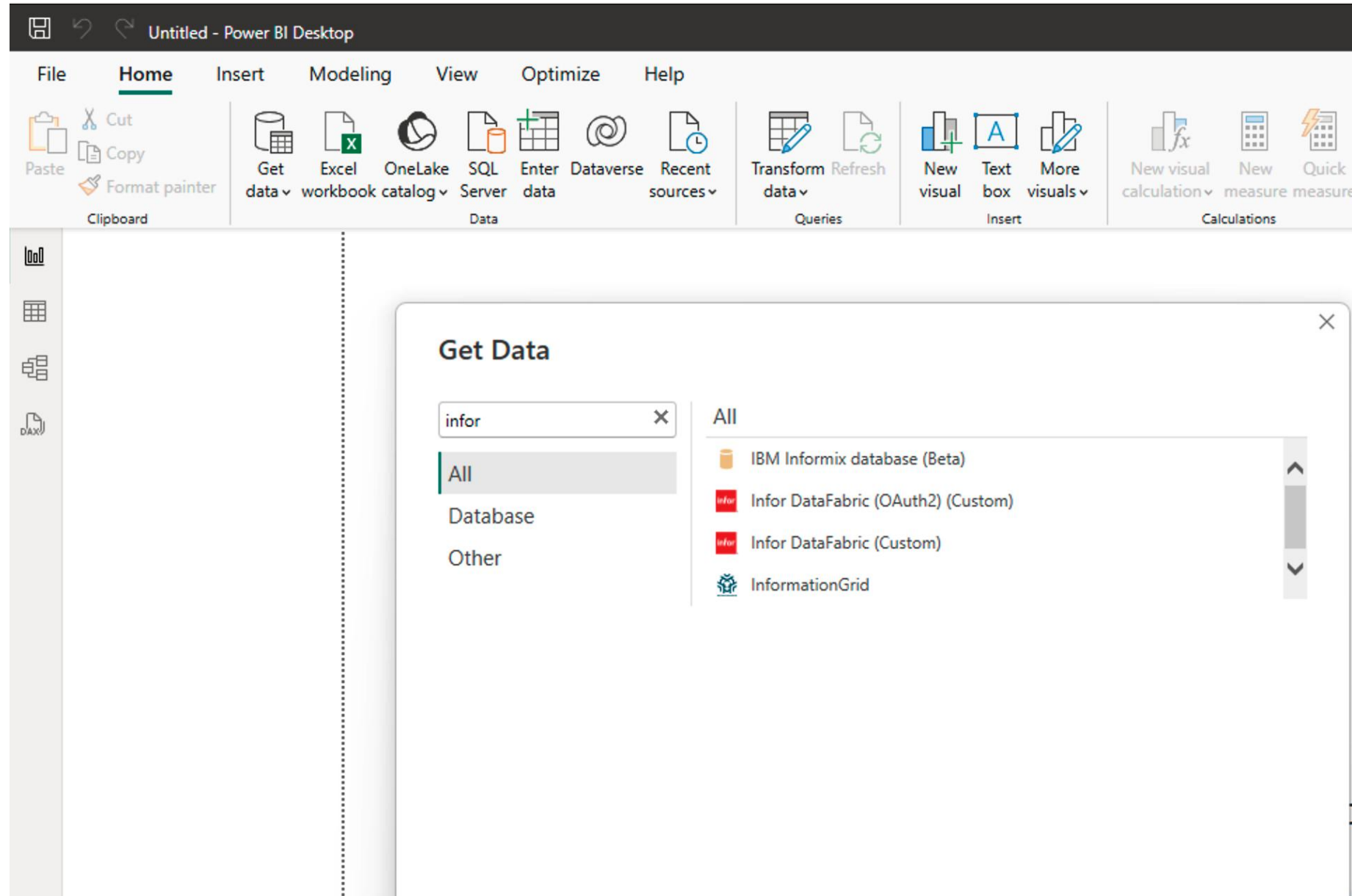
+46 733 27 51 56

Joakim.Mattsson@infor.com

Infor Data Fabric ODBC Driver



MS Power BI Native Connector



MS Power BI Native Connector

Infor DataFabric Query

Executor ⓘ
Datalake

Database (optional) ⓘ
[Empty]

Metadata reset (optional) ⓘ
[Empty]

Query (optional)
Native query (Requires: Database) (optional) ⓘ
*Example: select * from db.schemaname.tablena...*

Data Connectivity mode ⓘ

Navigator

Display Options ▾

- └─ Datalake [1]
 - └─ default [4]
 - └─ admin
 - └─ datacatalog
 - └─ default [10000]
 - oclusma_1
 - oclusma_2
 - odhead
 - odline
 - ods_ehr_dim_location
 - ods_hrt_job
 - oeeh
 - oeeha
 - oeehc
 - oeehch
 - oeehextra
 - oeehp
 - oeehta
 - oee...

No items selected for preview

OK

Load Transform Data Cancel

MS Power BI Native Connector

The screenshot shows the 'Navigator' window in MS Power BI. The search bar contains 'OOHEAD'. The left pane shows a tree view under 'default' with various tables. The 'oohead' table is selected. The right pane shows a preview of the 'oohead' table data, which is truncated. Below the preview is an information icon and a message: 'The data in the preview has been truncated due to size limits.' At the bottom of the window are buttons for 'Load', 'Transform Data', and 'Cancel'.

Navigator

OOHEAD

Display Options

- default
 - lkh_oohead
 - oohead**
 - oohead_1
 - oohead_100cols_10krows
 - oohead_100k_pk_20_var
 - oohead_101cols_10krows
 - oohead_2
 - oohead_8
 - oohead_99cols_10krows
 - oohead_99cols_1krows
 - oohead_batch
 - oohead_continuous_test_1
 - oohead_continuous_test_10
 - oohead_continuous_test_100
 - oohead_continuous_test_11
 - oohead_continuous_test_12
 - oohead_continuous_test_13
 - oohead_continuous_test_14

Search results are limited to already expanded items

oohead

Preview downloaded on Wednesday

3rdp	abno	accountingentity	adid	agno	agnt	aicd
		0 750_AAA				
		0 750_AAA				
		0 750_AAA				

i The data in the preview has been truncated due to size limits.

Load Transform Data Cancel