#FABCONSQLCON2026

FABCON
Microsoft Fabric
COMMUNITY CONFERENCE

SQLCON
Microsoft SQL
COMMUNITY CONFERENCE

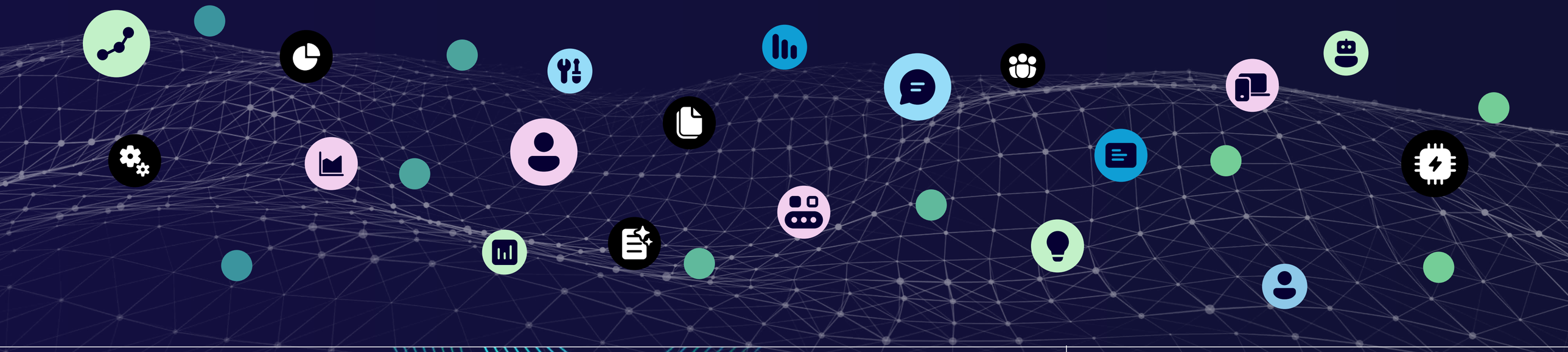
ATLANTA MARCH 16 – 20, 2026

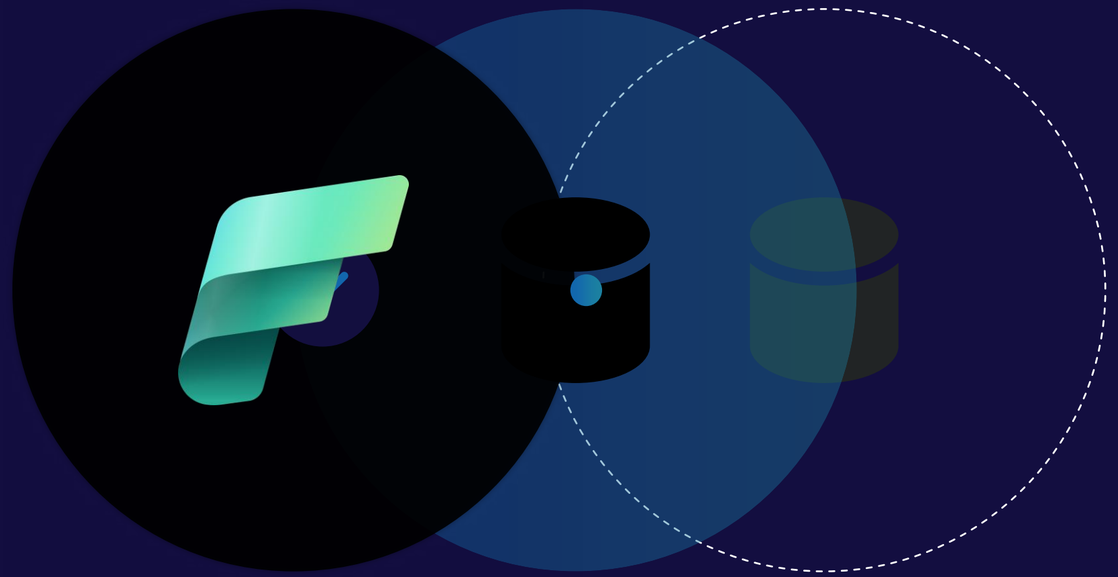
Fabric IQ:
Unlock Enterprise AI with a Unified Semantic Layer

Chafia Aouissi
GPM, Fabric IQ
Adam Lash
Principal PM, Ontology

How do you make your **AI agents** as trusted and productive as your **best employees?**

You **empower your AI agents** with the same knowledge and context





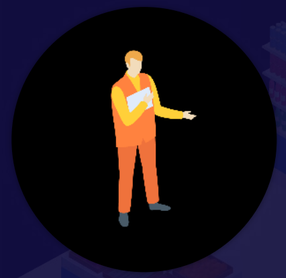
Fabric has unified data

How can it help unify your business?


Store

Entities

Store Managers

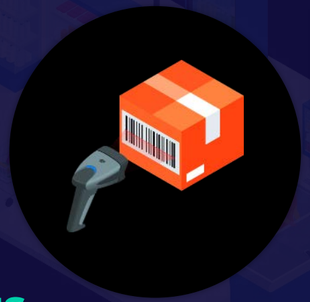


Stores

Inventory

Shipments

Products



Distribution Centers

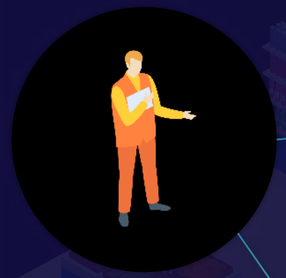
Suppliers

Market Segments

Buyers

Relationships

Store Managers



Stores

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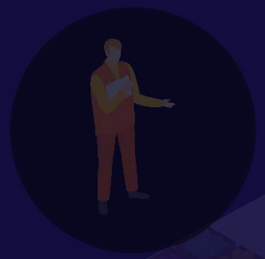


Products

Inventory

Stores

Distribution Centers

Suppliers

Market Segments

Buyers

Shipments

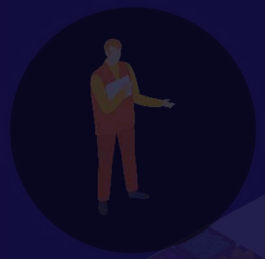
Properties

- Origin & Destination
- SKU Contents
- Transit Status
- Arrival Window

Actions

- Pause Inbound
- Release Hold
- Reroute Shipment
- Request Inspection

Store Managers



Products

Inventory

Stores

Distribution Centers

Suppliers

Market Segments

Buyers

Policies

Discount Caps

Compliance protocols

Food safety

Stores

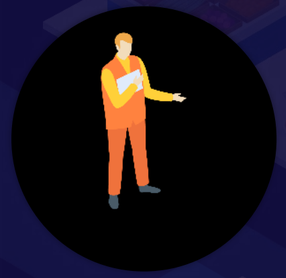
Shipments

Distribution Centers

Objectives

- Risk & Compliance
- Profitability
- Customer Satisfaction

Store Managers



Products

Inventory

Shipments

Market Segments

Stores

Buyers

Distribution Centers

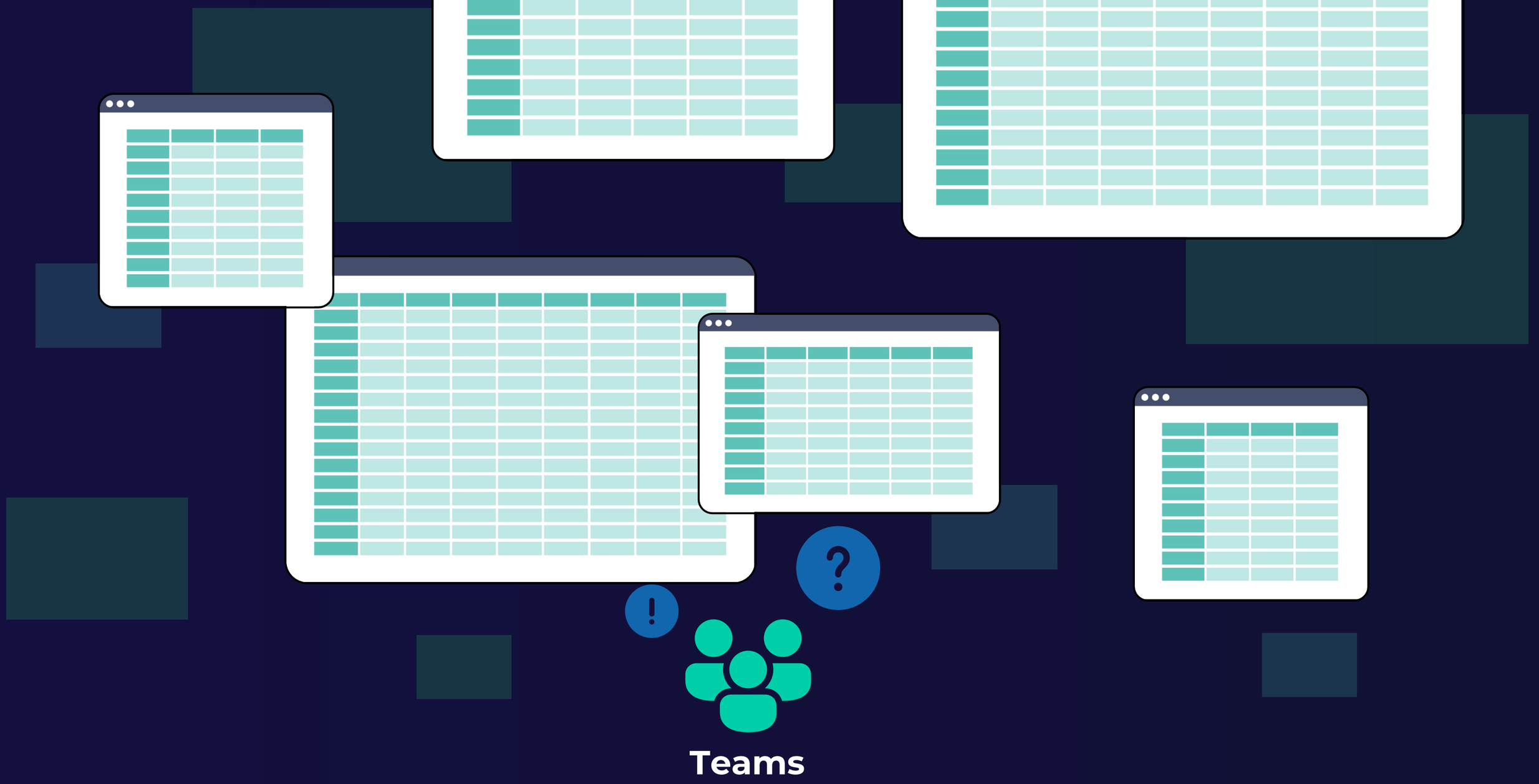
Suppliers

Teams

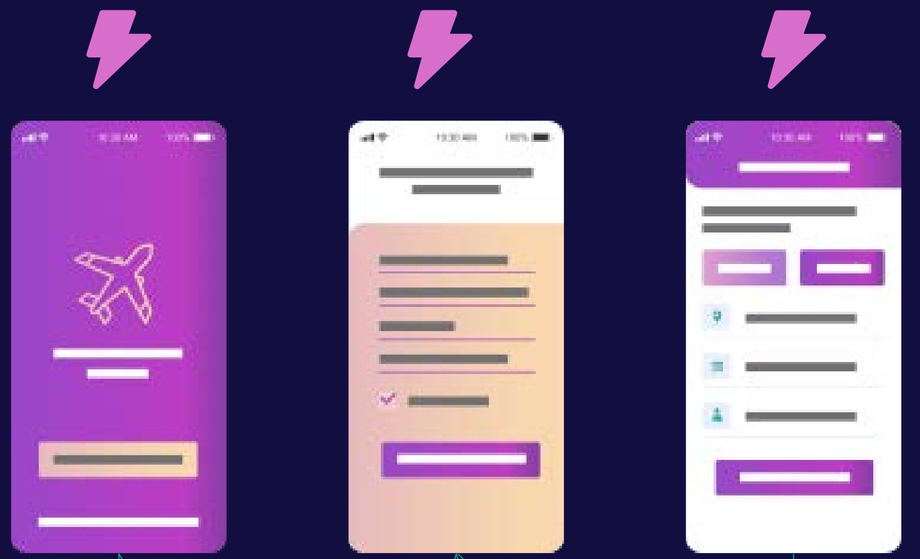
The language of your business

- ENTITIES
- PROPERTIES
- ACTIONS
- RELATIONSHIPS
- POLICIES
- OBJECTIVES

Teams


Teams

Team 1



Tables and streams

Operational systems

Team 1


Team 1
Team 2
Team 3

No unified understanding

Fragmented

Reactive

Slow

Unified view of the business

Data

Meaning

Action

Fabric IQ

Microsoft Fabric

The unified data platform for AI transformation

Data Factory

Analytics

Databases

Real-Time Intelligence

Power BI

IQ

Fabric Platform

Copilot

OneLake

Governance

Microsoft Fabric

The unified data platform for AI transformation

IQ

Semantic Model

Ontology

Digital Twin Builder

Graph

Plan

Data Agent

Operations Agent

Fabric Platform

Copilot

OneLake

Governance

Announcing

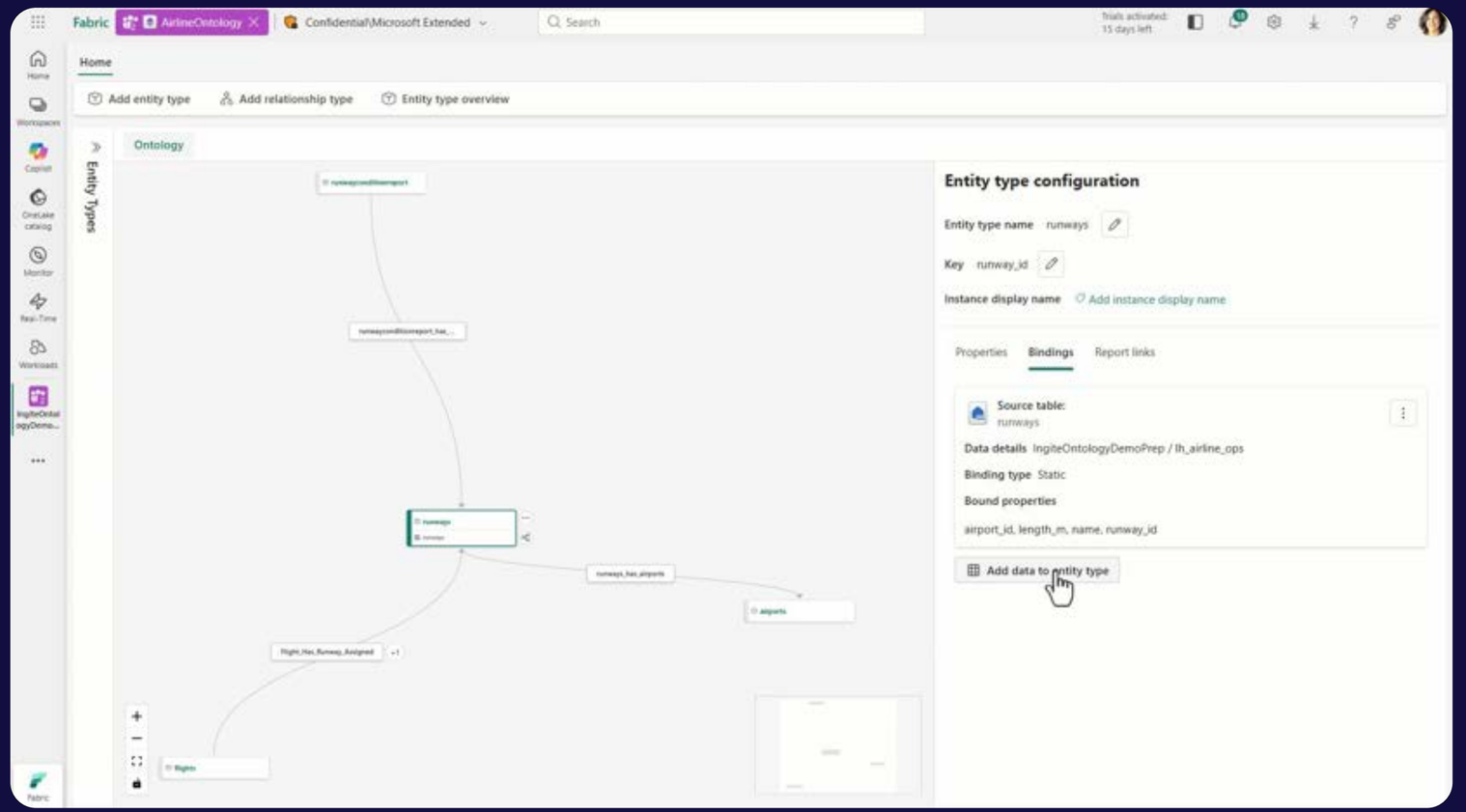
Ontology

Public Preview

Ontology in Fabric IQ

Model how your business works with the Ontology item

Public Preview



Define the ontology for your business using visual no-code tools

Build ontologies with business concepts, processes, and real-world relationships

Jumpstart your ontology creation from 20M+ semantic models

Bind tables, real-time streams and geospatial data in OneLake to your ontology

Tony Guidici
Chief Architect

qcells

Qcells provides comprehensive solutions, encompassing solar cells and modules, energy storage, software, financing services, energy services, and large-scale solar power plants, servicing key markets worldwide.

Solar Cells & Modules

Residential System Solutions

Utility Scale Energy Solutions

Community, Commercial & Industrial (CCI) Distributed Energy Solutions

Qcells has a long history and deep know-how in the solar industry.
Our technology is regularly recognized as top quality, and our brand is the top choice for global customers.
With our expertise, we are now moving forward in providing complete energy solutions
for each of the energy market segments including residential, CCI and utility sectors.

Multi-source energy at data centers is too complex for manual control

Optimizing across multiple energy sources, tariffs, weather, and demand patterns simultaneously exceeds human capacity

Grid
TOU tariffs, demand charges, real-time pricing signals

Solar PV
Weather-dependent, forecast-driven, intermittent output

BESS
SOC limits, cycle life, charge/discharge scheduling

Gas Gen
Fuel cost, emissions, runtime limits, backup priority

Manual Operator

- Peak Shaving
- Demand Mgmt
- Bill Savings
- Grid Flex

Must Be Aware Of

Tariff & Rate
TOU, demand charges, real-time pricing, DR signals

Weather
Solar irradiance, temperature forecasts, cooling load impact

Load Patterns
AI workload scheduling, peak vs. off-peak demand

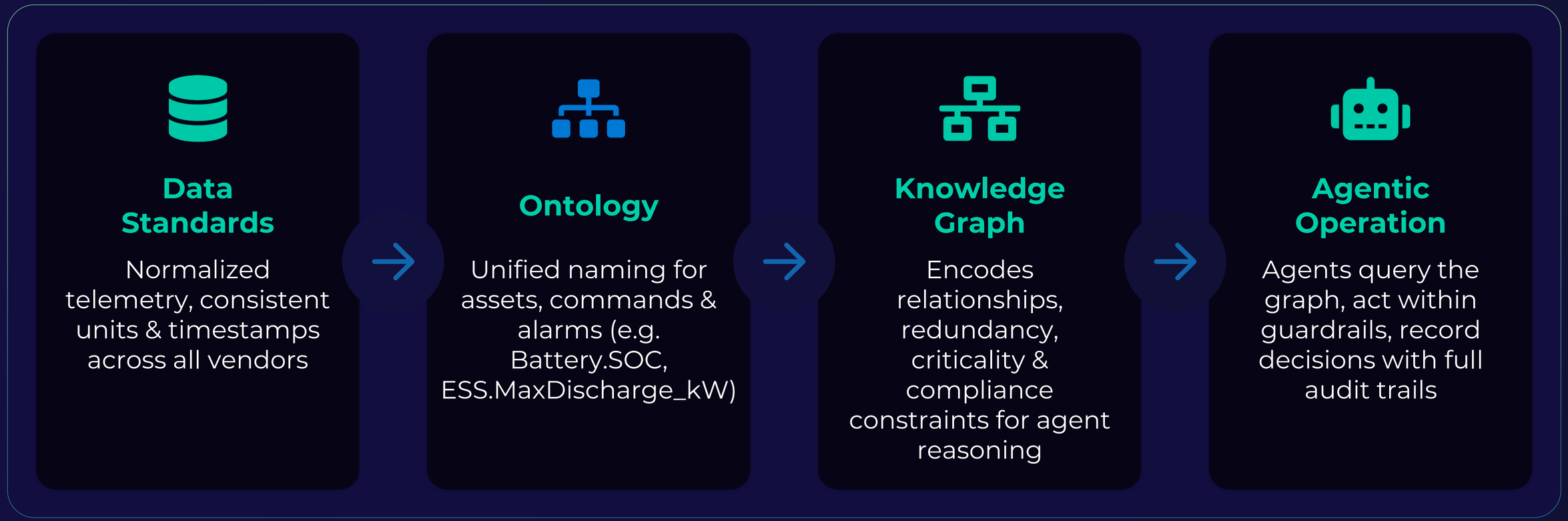
Safety & Uptime
N+1 redundancy, SoC limits, grid islanding, failover

Simultaneous optimization across 4+ energy sources, variable tariffs, weather, and safety constraints = beyond human capacity

qcells

Agents & humans, one language

Data standardization, ontology, and knowledge graph enable safe, repeatable agentic operations



Result: Repeatable agent responses, portable across sites, with full explainability for every decision

qcells

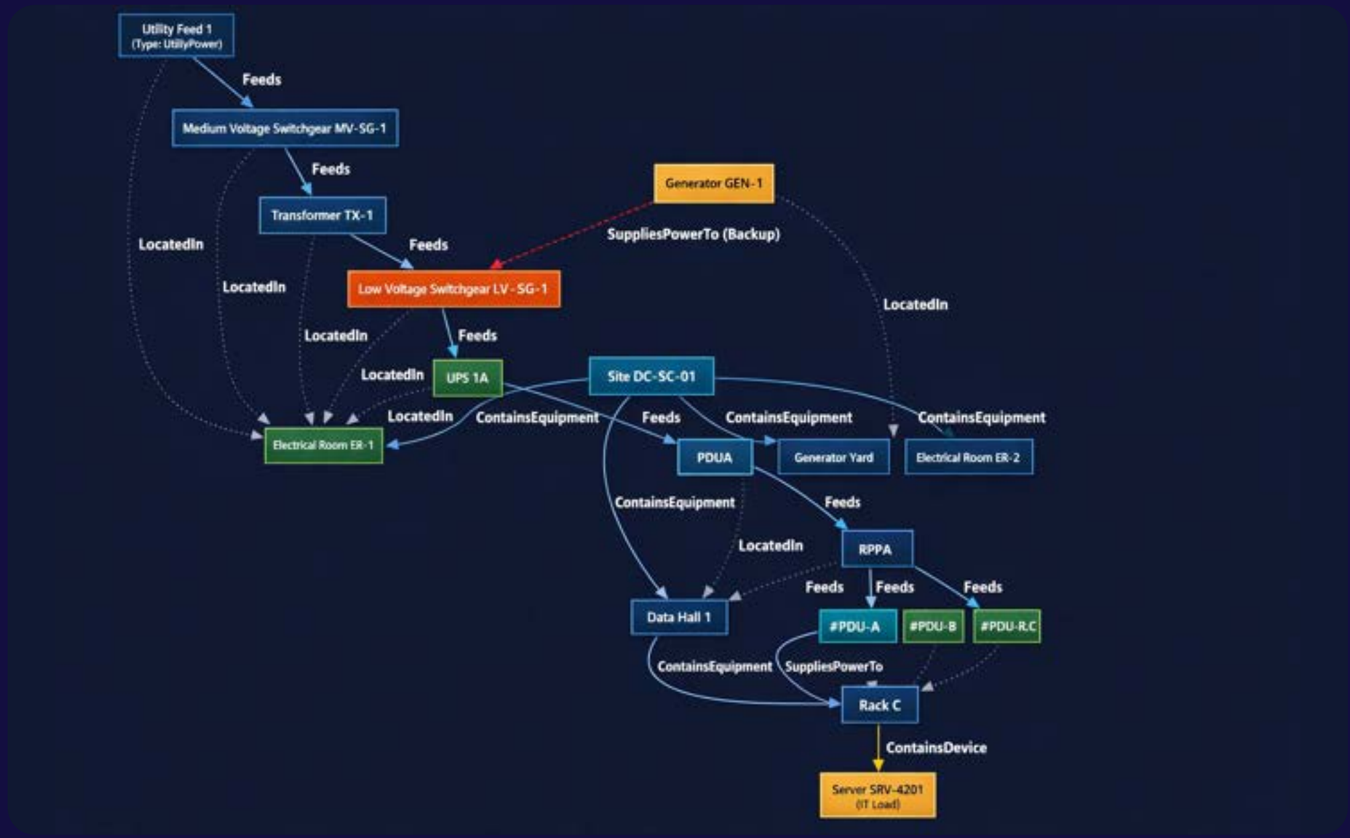
Applied ontology architecture for data center energy

Physical infrastructure modeled through a shared semantic ontology

Relationships, constraints, and redundancy encoded for AI reasoning

Agents operate against a verified system representation

Powered by Fabric Ontology



WattSchema/WattSchema: Power management ontology github repository

The Value of Working Within Microsoft Fabric

Speed of Deployment

Fabric IQ provides a semantic layer that lets AI systems interpret energy management context in a way that can be used immediately

Semantic Continuity

Because Fabric IQ enables the same conceptual model, one model works across design, operations, analytics, automation, and enterprise AI

Unlocks Analytics

Fabric IQ supports enterprise operational analytics and agentic AI, allowing for forecasting and root-cause analysis

Reduces Friction

Fabric IQ removes silos between operators, data teams, and AI teams by allowing everyone to speak the same language

Qcells Energy Management System (EMS)

Human-Centered Energy Management AI

Purpose-Built

Made for energy-intensive, mission-critical facilities.

Optimized for data center operational environments.

AI-Enabled

Functions independently with human oversight.

Provides optimization recommendations in real-time.

Standards-Forward

Digitizes SOPs and safety thresholds.

Agents and operators speak the same language.

Powered by Fabric

World-class data platform.

Integrates streaming, graph, warehouse data, and Microsoft Foundry

Cost Savings | **Operational Resilience** | **Compliance** | **Emissions Reduction** | **Revenue Generation**

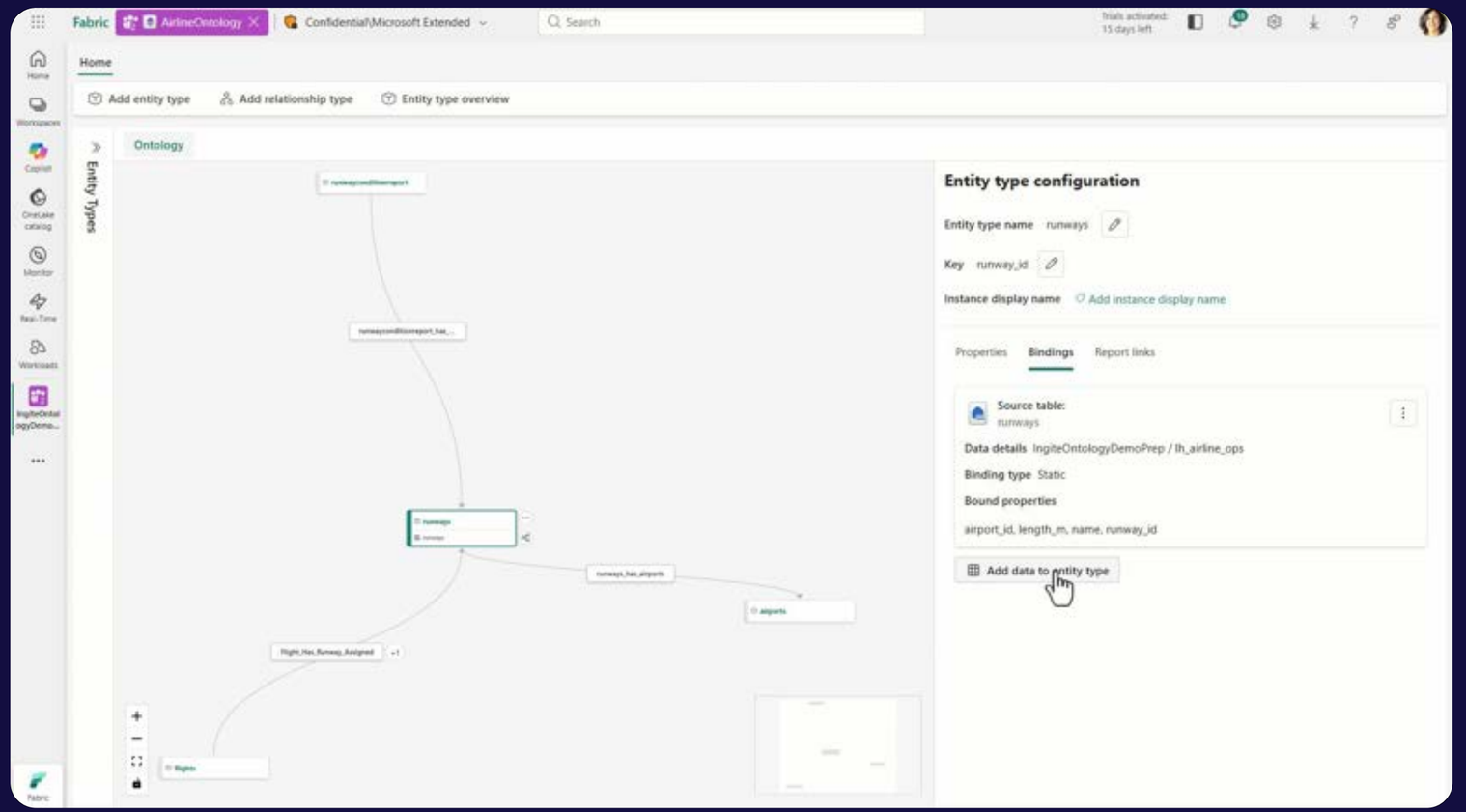
qcells

Ontology Creation

Ontology Creation

Model how your business works with the Ontology item

Public Preview



Jumpstart your ontology creation from 20M+ semantic models

Create your Ontology concepts with low/no-code UX and APIs directly in the Ontology item

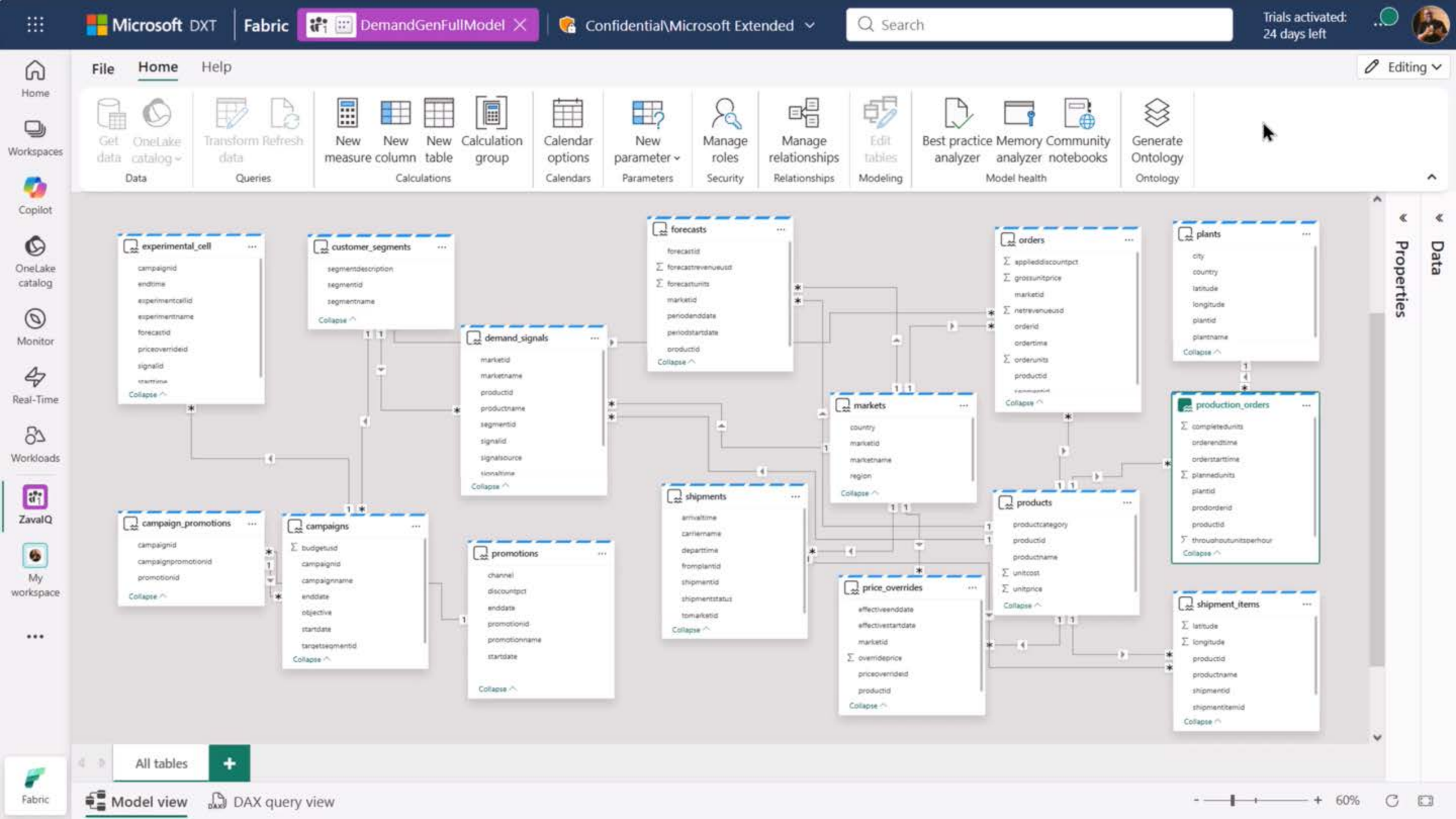
Leverage AI to automatically generate Ontologies from multiple semantic models, Lakehouses, Eventhouses, and more*

Generate your Ontology by importing existing standards (e.g.; RDF/OWL)*

** Coming soon*

Demo

Ontology


Microsoft DXT
Fabric
DemandGenFullModel
Confidential\Microsoft Extended
Search
Trials activated:
24 days left
File
Home
Help
Editing
Home
Workspaces
Copilot
OneLake catalog
Monitor
Real-Time
Workloads
ZavaIQ
My workspace
Fabric
Get data
OneLake catalog
Data
Transform data
Refresh
Queries
New measure
New column
New table
Calculation group
Calculations
Calendar options
Calendars
New parameter
Parameters
Manage roles
Security
Manage relationships
Relationships
Edit tables
Modeling
Best practice analyzer
Memory analyzer
Community notebooks
Model health
Generate Ontology
Ontology
experimental_cell
campaignid
endtime
experimentcellid
experimentname
forecastid
priceoverrideid
signalid
Collapse
customer_segments
segmentdescription
segmentid
segmentname
Collapse
forecasts
forecastid
forecastrevenueusd
forecastunits
marketid
periodenddate
periodstartdate
productid
Collapse
orders
appliedddiscountpct
grossunitprice
marketid
netrevenueusd
orderid
ordertime
orderunits
productid
Collapse
plants
city
country
latitude
longitude
plantid
plantname
Collapse
demand_signals
marketid
marketname
productid
productname
segmentid
signalid
signalsource
Collapse
markets
country
marketid
marketname
region
Collapse
production_orders
completedunits
orderendtime
orderstarttime
plannedunits
plantid
prodorderid
productid
throughoutunitsperhour
Collapse
campaign_promotions
campaignid
campaignpromotionid
promotionid
Collapse
campaigns
budgetusd
campaignid
campaignname
enddate
objective
startdate
targetsegmentid
Collapse
promotions
channel
discountpct
enddate
promotionid
promotionname
startdate
Collapse
shipments
arrivaltime
carriername
departtime
fromplantid
shipmentid
shipmentstatus
tomarketid
Collapse
products
productcategory
productid
productname
unitcost
unitprice
Collapse
price_overrides
effectiveenddate
effectivestartdate
marketid
overrideprice
priceoverrideid
productid
Collapse
shipment_items
latitude
longitude
productid
productname
shipmentid
shipmentitemid
Collapse
Properties
Data
All tables
Model view
DAX query view
60%

Ontology Creation Best Practices

Modeling business concepts as entities

Unifying data, meaning, and action

Entity Type

Data ⟷ Logic

Properties | Actions | Rules | Semantics | Objectives

Modeling business concepts as entities

Unifying data, meaning, and action

Entity Type

Properties

Actions

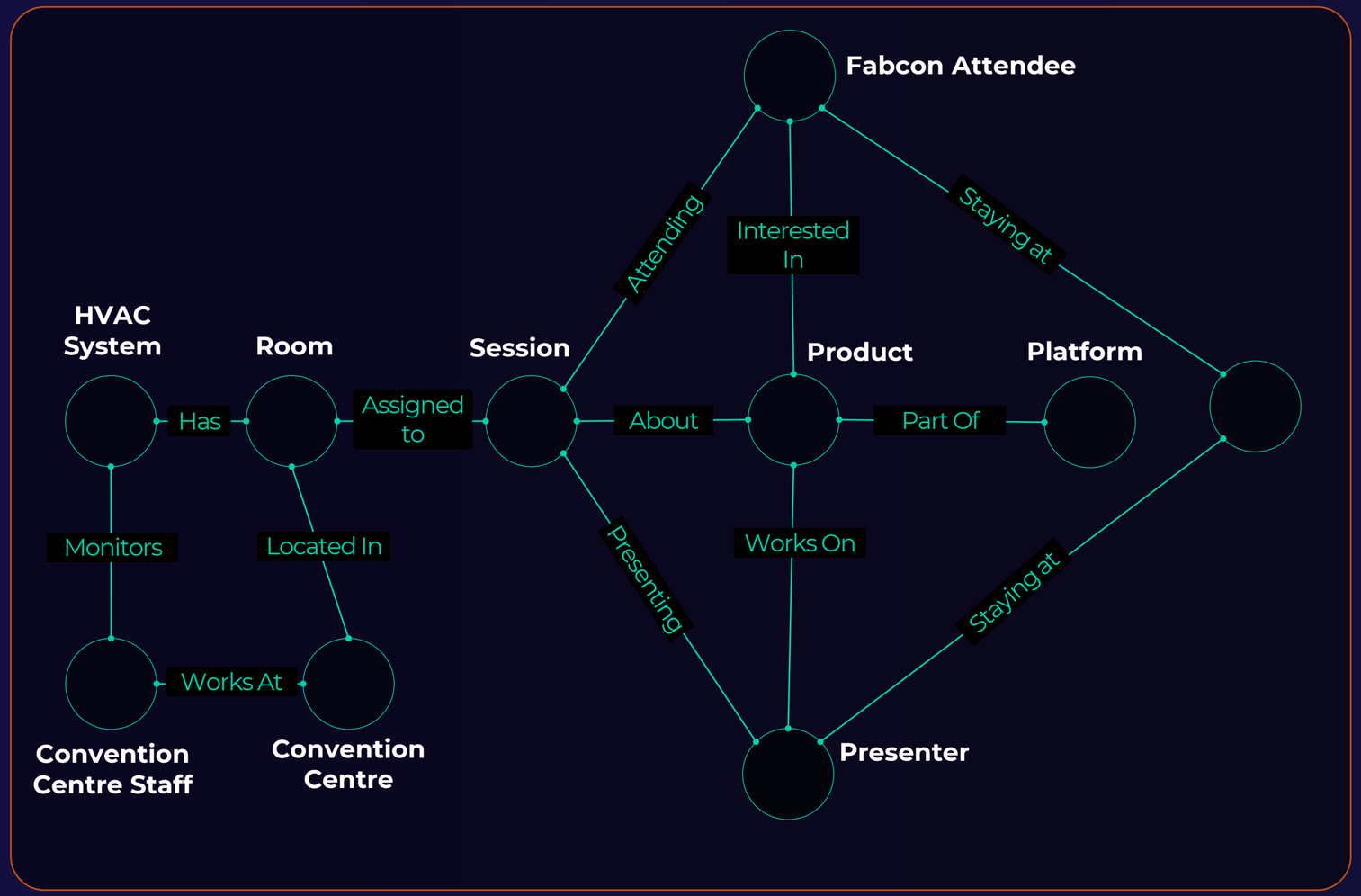
Rules

Semantics

Objectives

Relationship Types

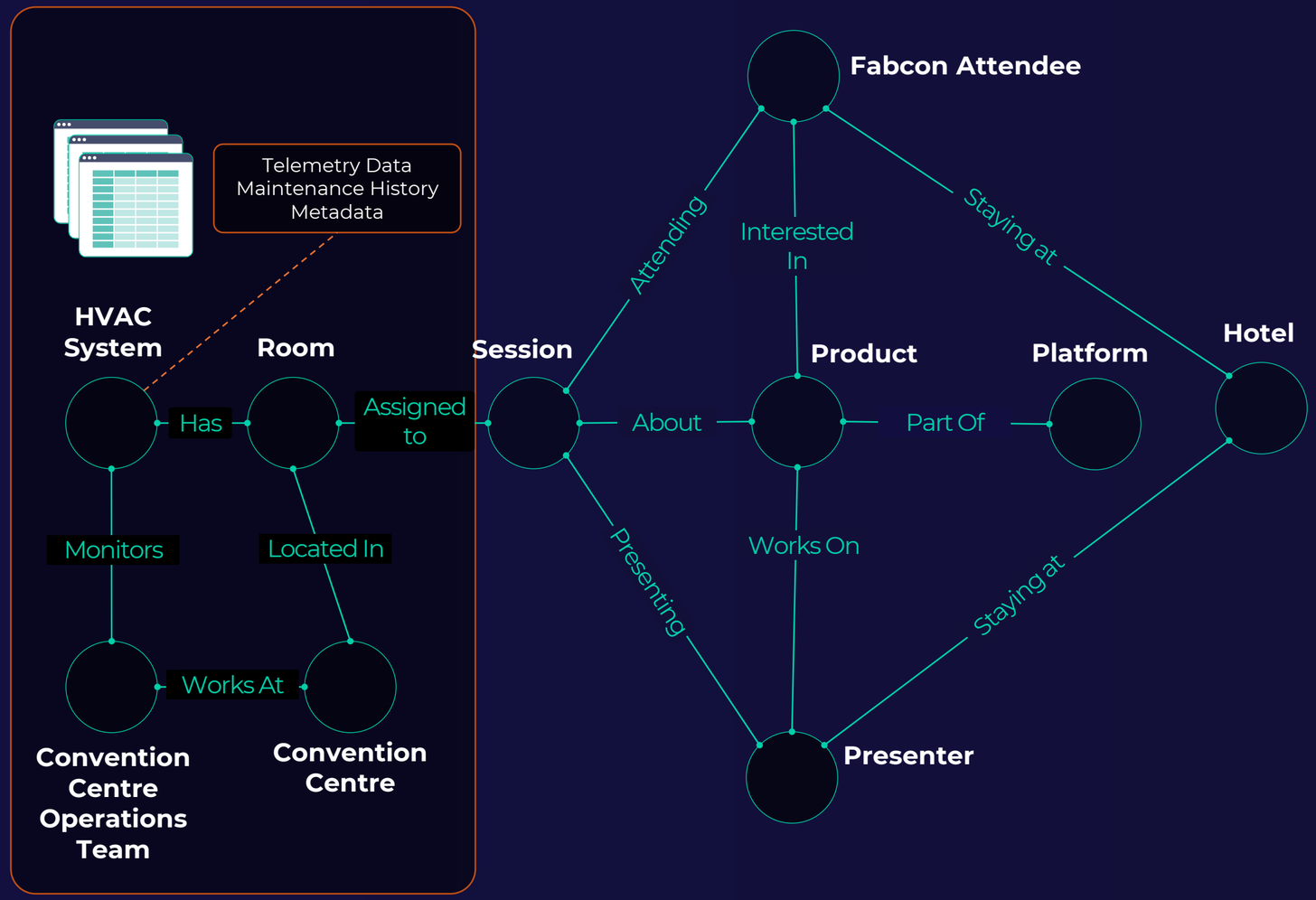
Ontology Concepts



A Logical Model with semantics of a specific domain, enriched with business data.

It should reflect how your business interprets the world.

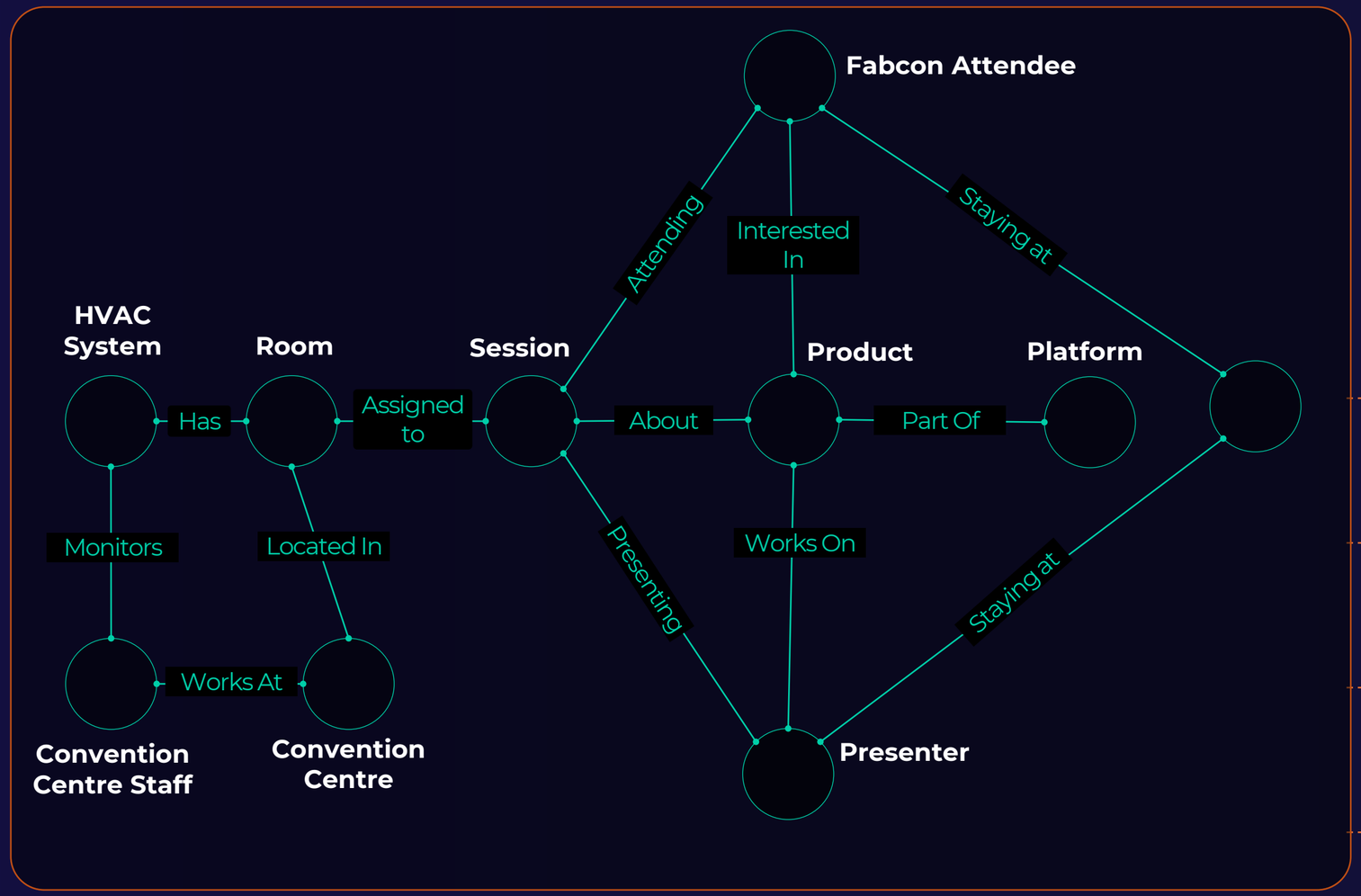
Ontology Concepts



A Logical Model with semantics of a specific domain, enriched with business data.

It formalizes your business concepts and relates them to your data.

Ontology Concepts



It formalizes your business concepts and relates them to your data.

ERP
Product Lifecycle Systems

CRM
Data Platforms

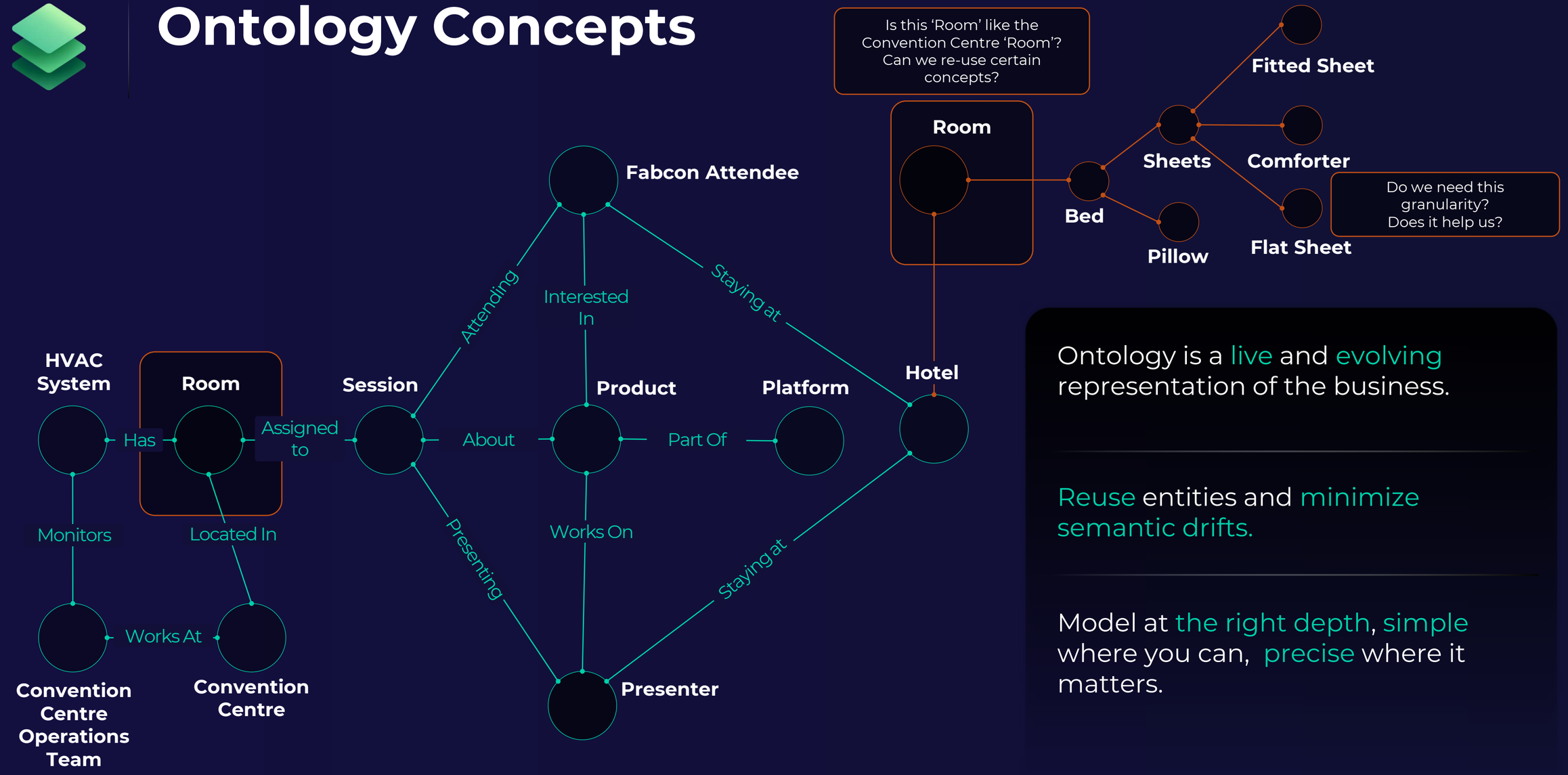
Events
Incident Management Systems

Risk Management
Policy Admin Systems

Demo

Ontology Semantic Canvas Overview

Ontology Concepts



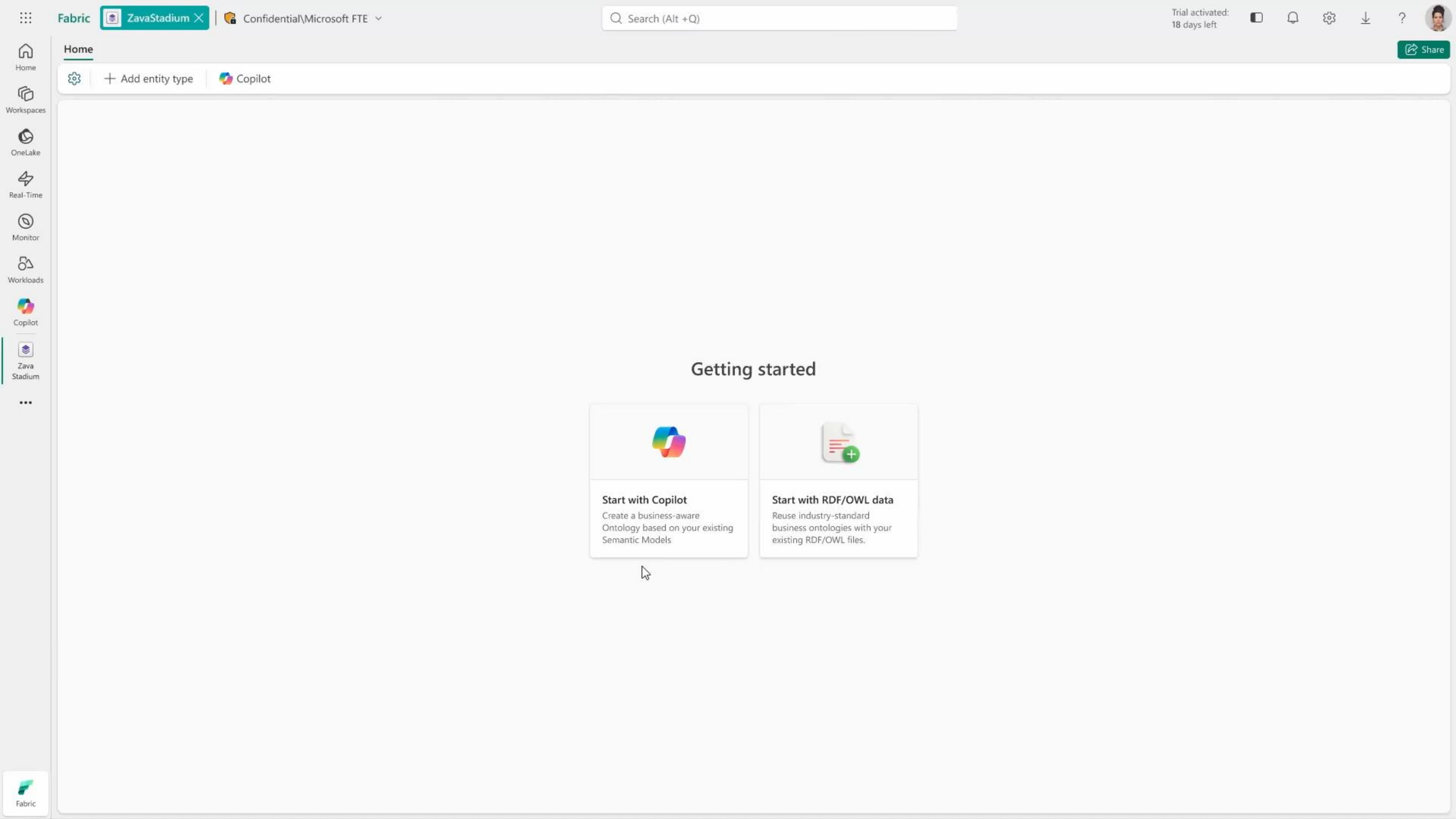
Ontology is a live and evolving representation of the business.

Reuse entities and minimize semantic drifts.

Model at the right depth, simple where you can, precise where it matters.

Sneak Peak

Ontology AI Creation


Fabric
ZavaStadium
Confidential\Microsoft FTE
Search (Alt +Q)
Trial activated:
18 days left
Home
Share
Add entity type
Copilot
Home
Workspaces
OneLake
Real-Time
Monitor
Workloads
Copilot
Zava Stadium
Fabric
Getting started
Start with Copilot
Create a business-aware Ontology based on your existing Semantic Models
Start with RDF/OWL data
Reuse industry-standard business ontologies with your existing RDF/OWL files.

Summary

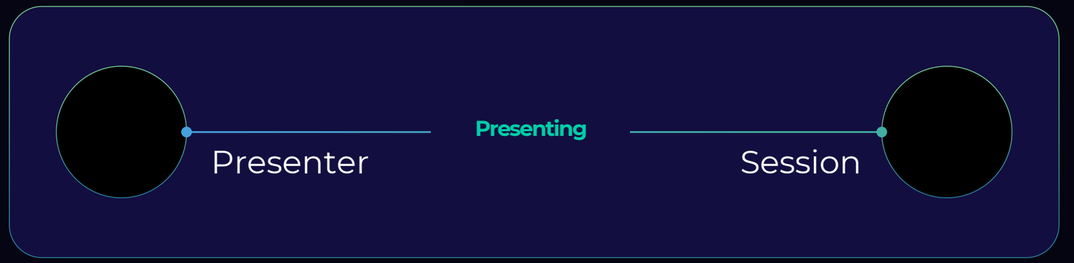
Follow your Business

Define how your business interprets the world

Granularity and Re-Use

Simple where you can, precise where it matters

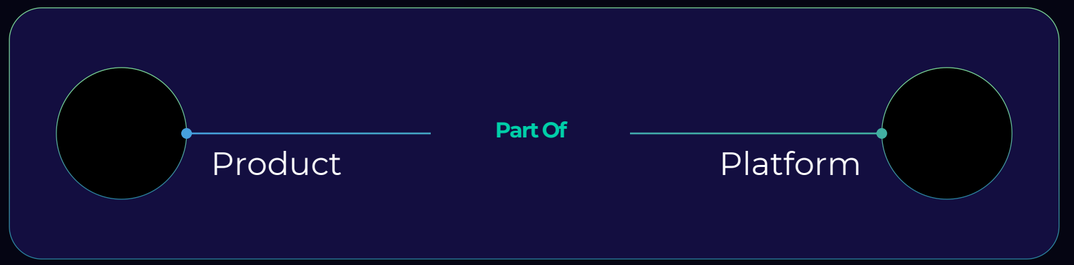
Re-use concepts to save time



Ontologies Evolve

Start small and simple

Update as business evolves

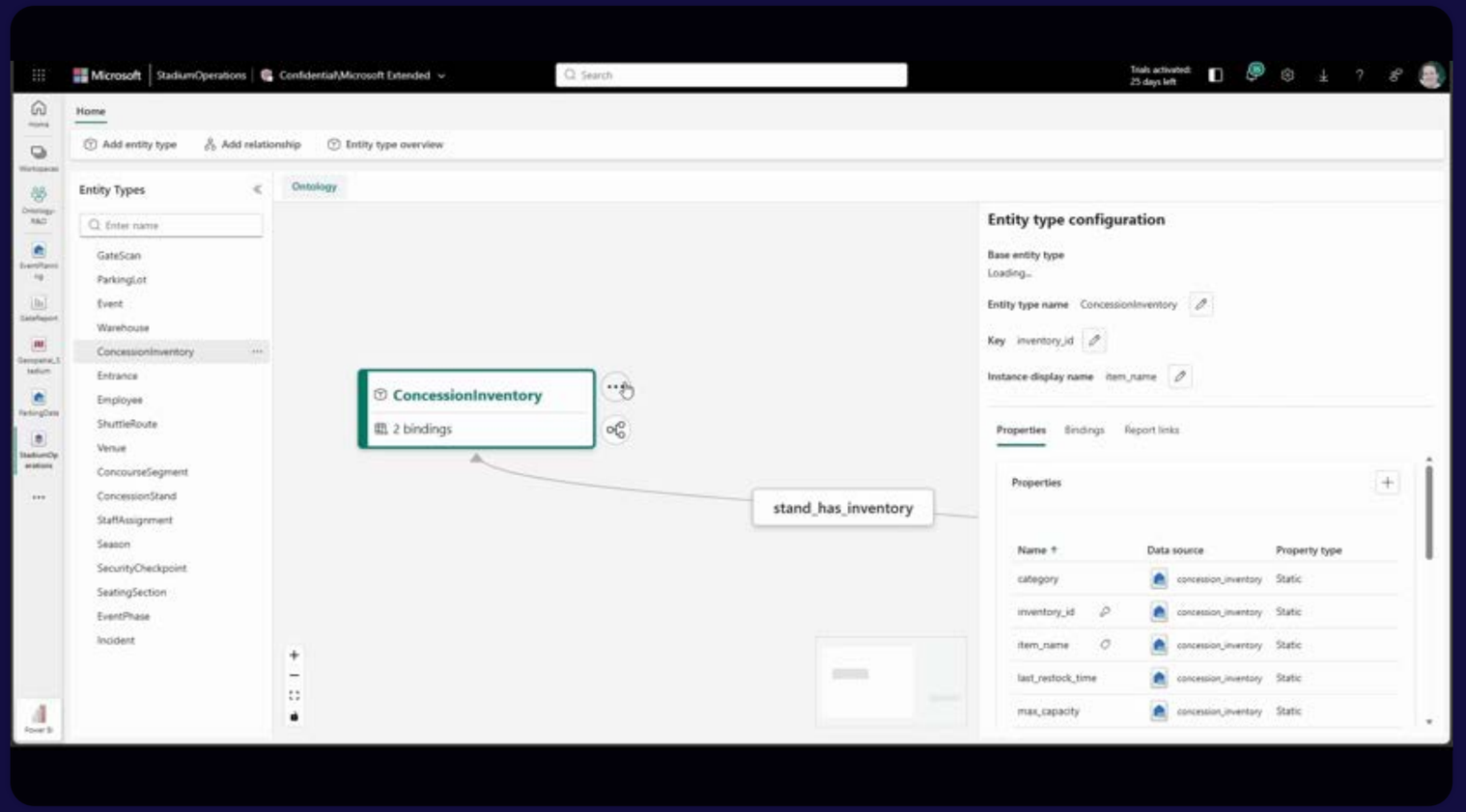


Ontology Consumption

Ontology Actions & Rules in Fabric IQ

Preview ontology data and define business logic, actions, and rules

Public Preview



Provides a connected overview of your business, continuously grounded in all your data

Users easily navigate views through familiar concepts at both the instance and fleet level

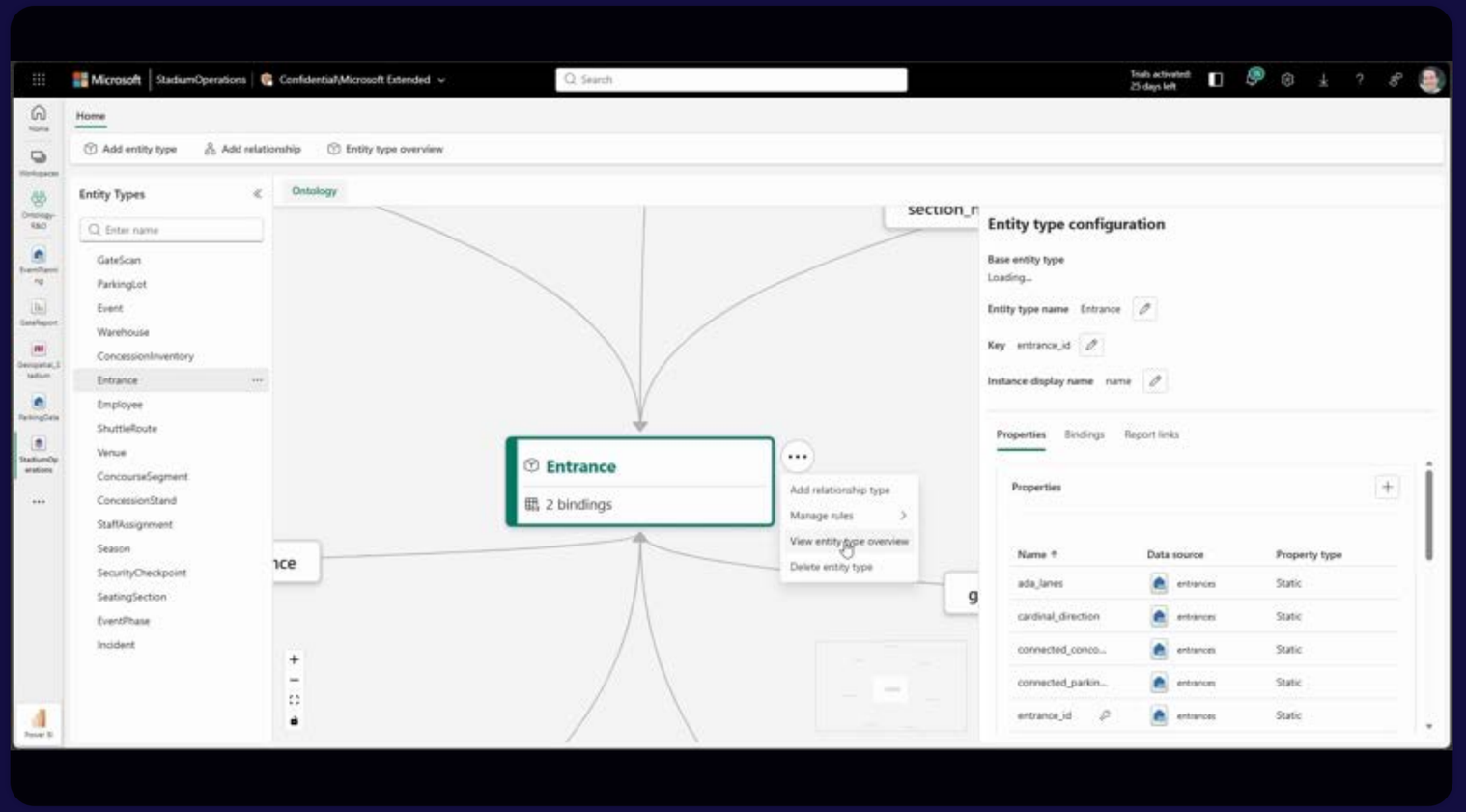
Overlay geospatial analytics on top of your operational context shaped by your ontology

Embed no-code rules to automatically trigger alerts, actions, and workflows to turn insight into action

Ontology Graph Analytics in Fabric IQ

Gain system-wide insights with graph analytics

Public Preview



Reveal hidden patterns, dependencies, and ripple effects across processes, customers, and supply chains

Detect multi-hop opportunities and risks that traditional reporting and BI tools cannot easily surface

Get a governed graph out-of-the-box, powered by Fabric Graph

Move from siloed optimization to true system-level intelligence that improves decisions end-to-end

Demo

Using Ontology

Home

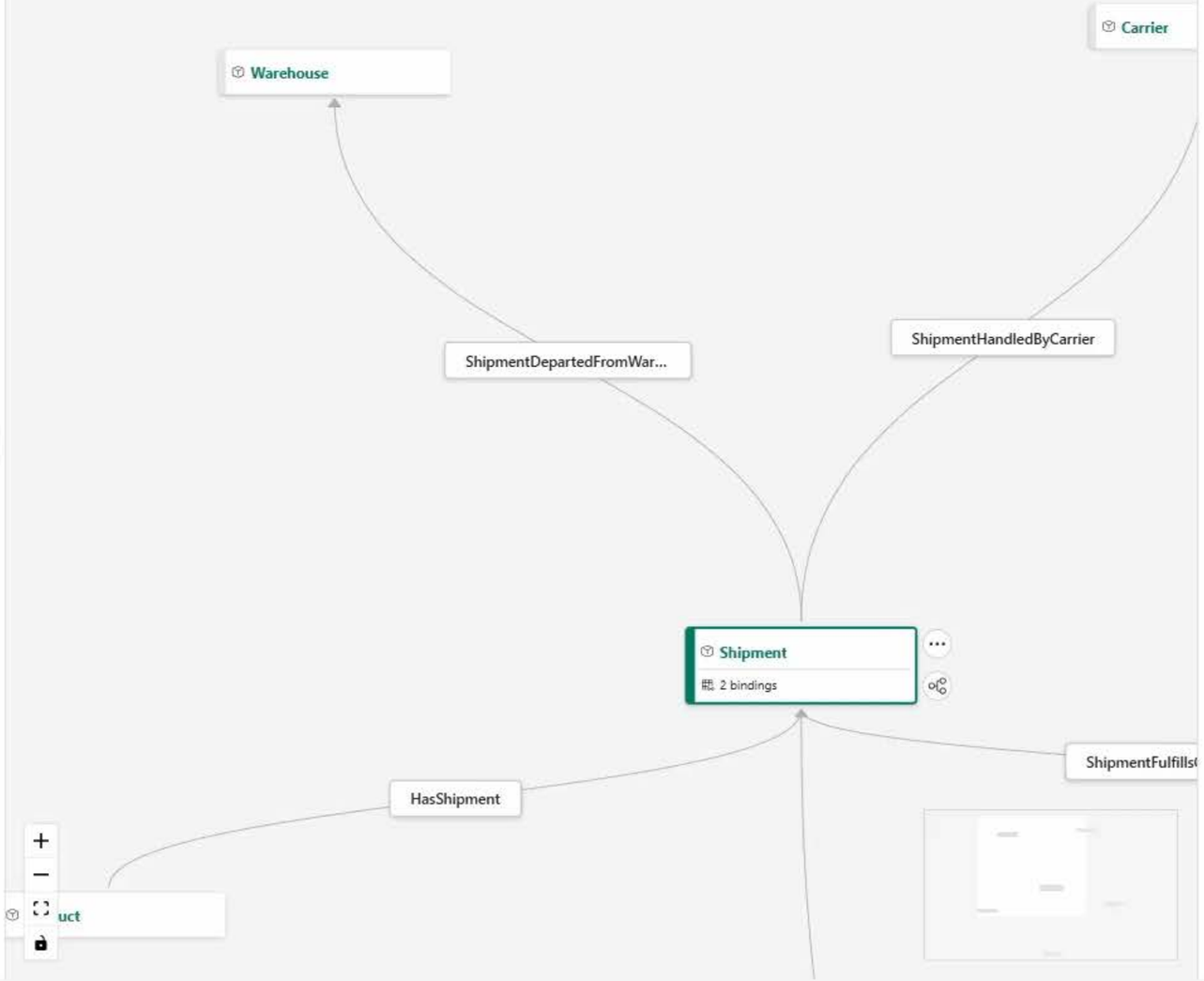
Add entity type | Add relationship | Entity type overview

Entity Types

Enter name

- Order
- Region
- Product
- Forecast
- Customer
- Return
- Store
- Warehouse
- Carrier
- DemandSignal
- OrderLine
- ProductCategory
- Shipment
- Promotion
- Inventory

Ontology



Entity type configuration

Base entity type
Loading...

Entity type name Shipment

Key ShipmentId

Instance display name ShipmentId

Properties | Bindings | Report links

Properties

Name	Data source	Property type
ActualDeliveryDat...	shipments	Static
CarrierId	shipments	Static
DelayMinutes	shipments	Timeseries
EstimatedDelivery...	shipments	Static
InTransitHumidity...	shipments	Timeseries
InTransitTemperat...	shipments	Timeseries
Latitude	shipments	Timeseries
Longitude	shipments	Timeseries
OrderId	shipments	Static

Ontology as semantic context for AI agents

The Fabric IQ difference

Today

Interpreting tables without business context and connection to actions

AI Agents

The Future

Grounded in live, unified business context connected to operational actions

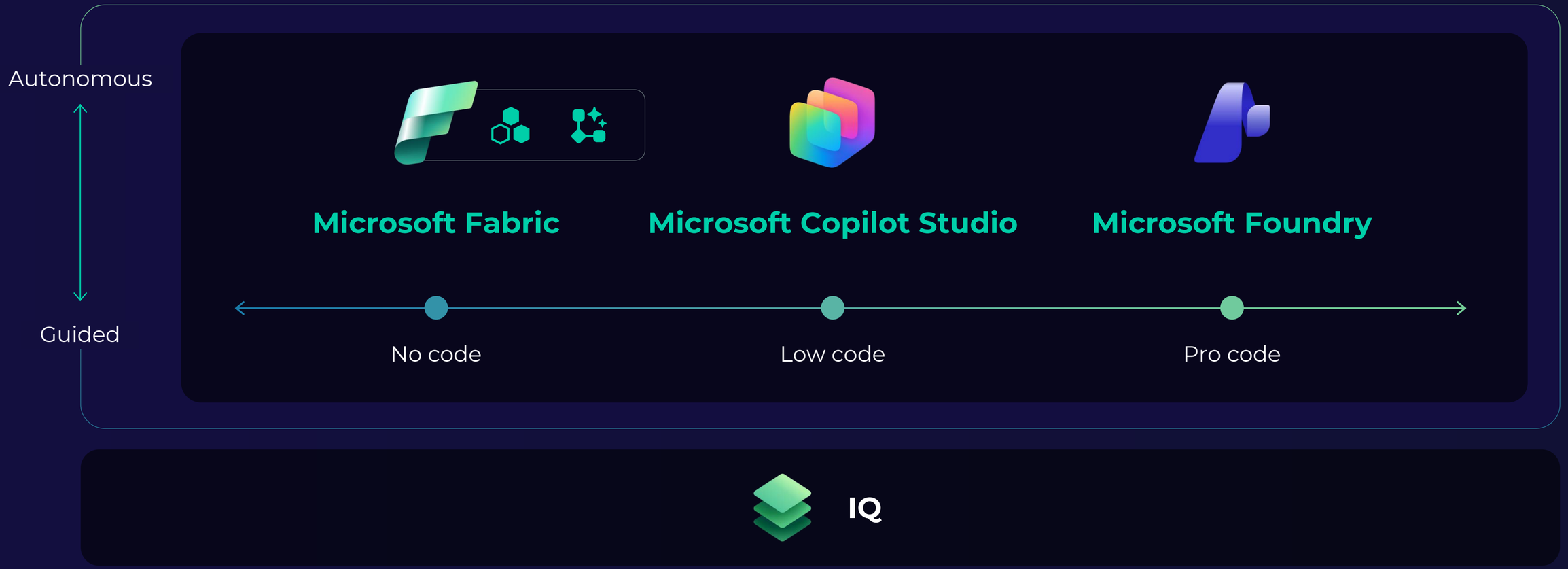
AI Agents

Wide spectrum of AI agents

One semantic foundation. Many agents. From questions to autonomous action.

Wide spectrum of AI agents

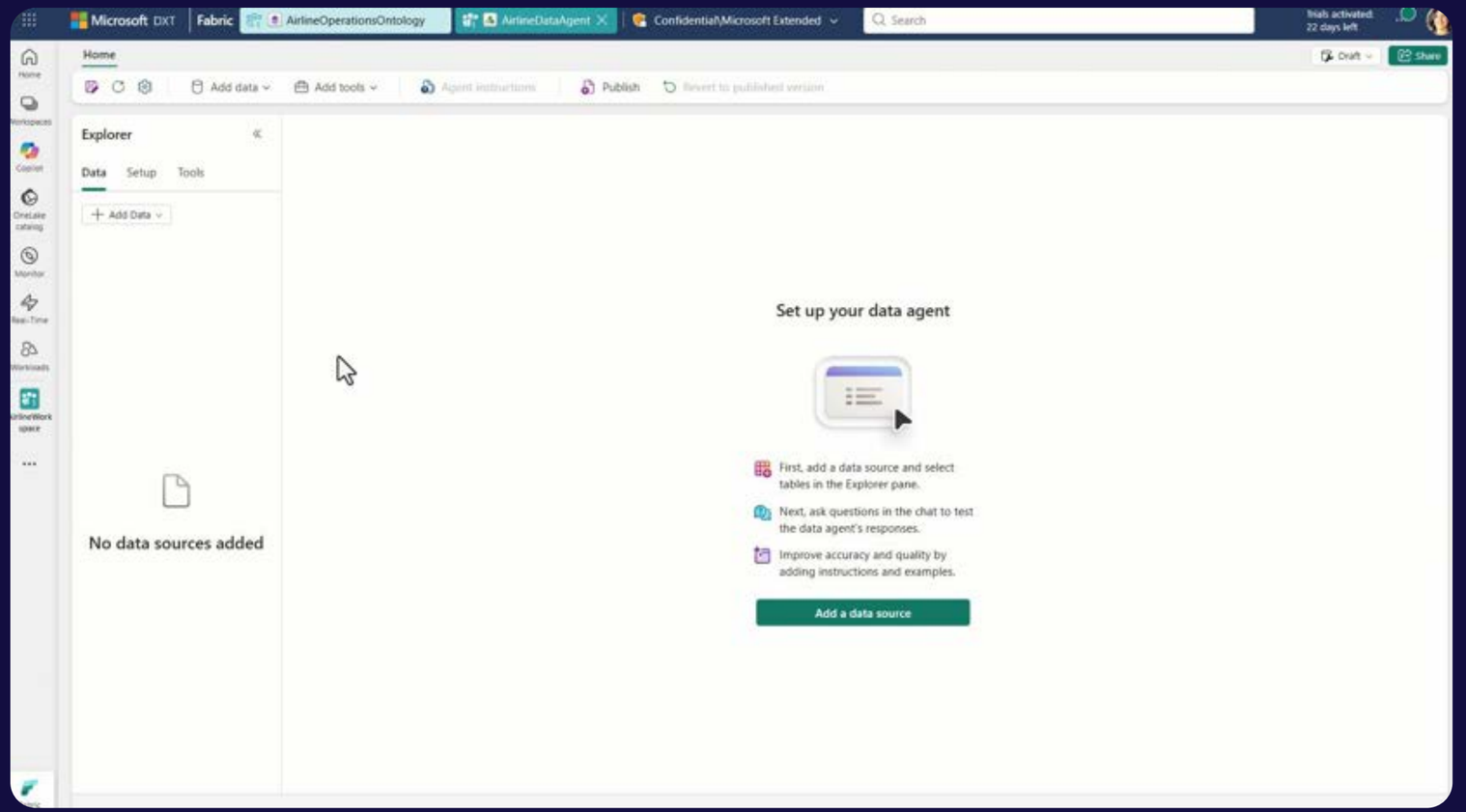
One semantic foundation. Many agents. From questions to autonomous action.



Data Agent in Fabric IQ

Enable data agents to better understand your business with Ontology

Public Preview



Enable business users to ask business questions in natural language

Uses ontology to reason over rich business entities and relationships instead of tables and columns

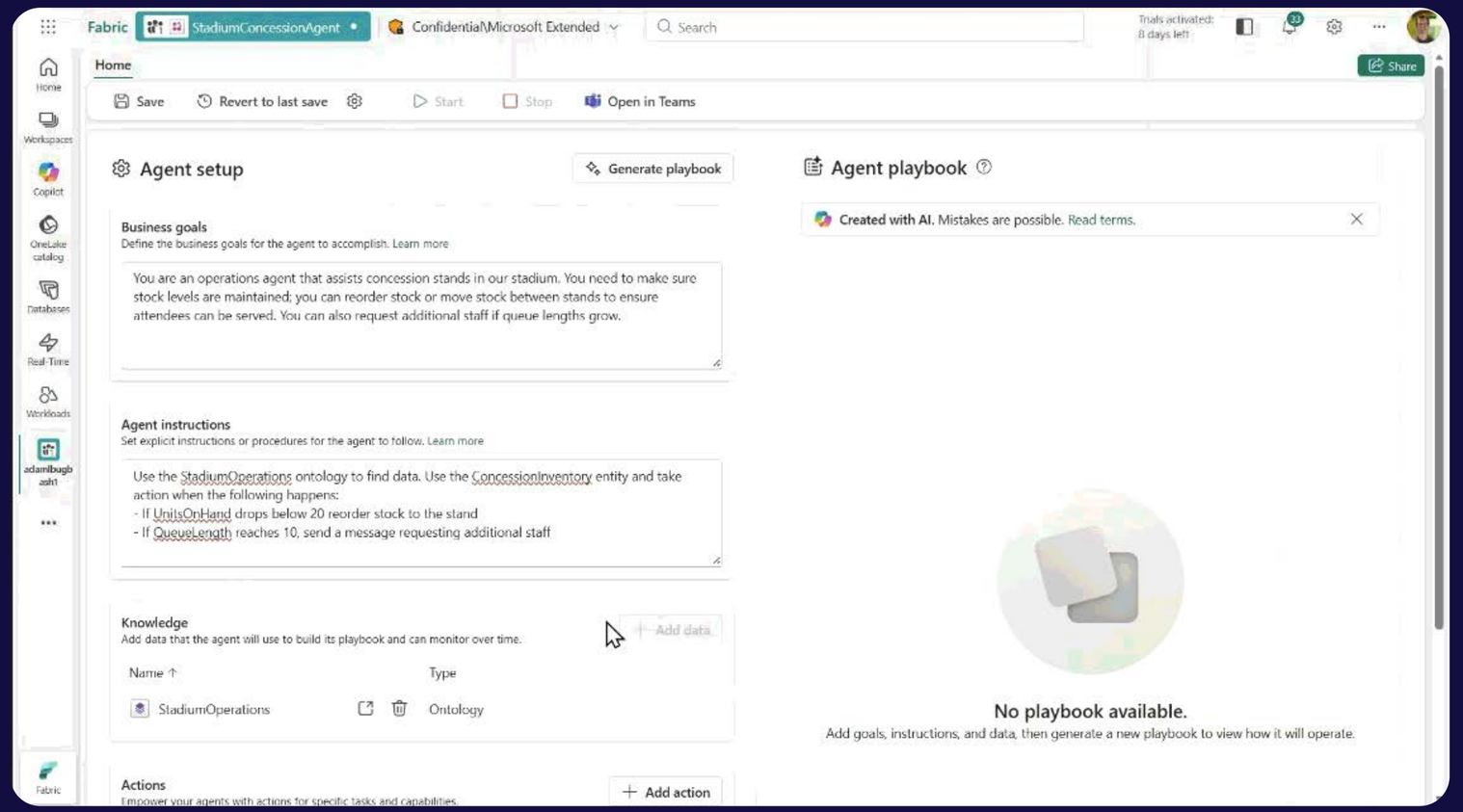
Embed ontology in custom applications through data agents by calling the public endpoint

Scale insight across the organization by enabling AI agents to draw from the same semantic foundation

Operations Agent in Fabric IQ

Build AI agents that drive your operations autonomously

Public Preview



Continuously monitors your operations and detects opportunities and risks as they emerge

Create operations agents with simple instructions in natural language, no code or developer required

Connect it to your ontology so it reasons over the live business context and chooses the best action

Executes decisions with human oversight on AI-assisted actions

Coming Soon

Fabric IQ MCP Server

Secured by Agent 365

Query Ontologies

Built on Fabric IQ

Governed & Secure

Enterprise-ready by Agent 365

Coming soon

Fabric IQ

+

Microsoft Foundry

Agents
Workflows
Models
Tools
Knowledge
Data
Evaluations
Guardrails

Agents (4)

Create agent | Browse templates

Ask AI | What are some common use cases for an agent? | What RBAC roles do I need to build an agent? | Is there support for multi-agent flows?

Search agents

Name	Version	Type	Created on	Description
retail-agent	2	prompt	3/10/26, 12:07:21 PM	--
market-competition-assistant	1	prompt	3/10/26, 9:11:26 AM	--
promotion-analytics-agent	1	prompt	3/10/26, 9:11:00 AM	--
supply-chain-agent	1	prompt	3/10/26, 9:10:44 AM	--

1-4 of 4

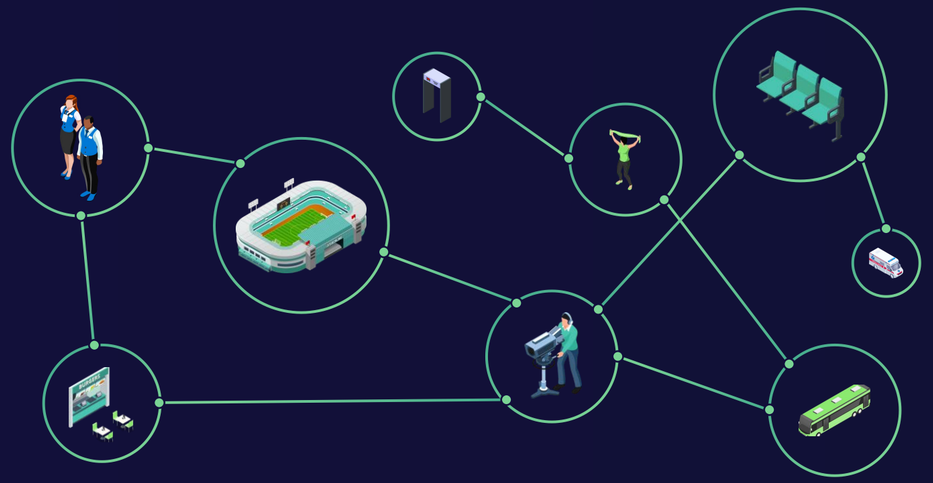
Prev Next

Live, unified view of the business

AI Agents

Teams

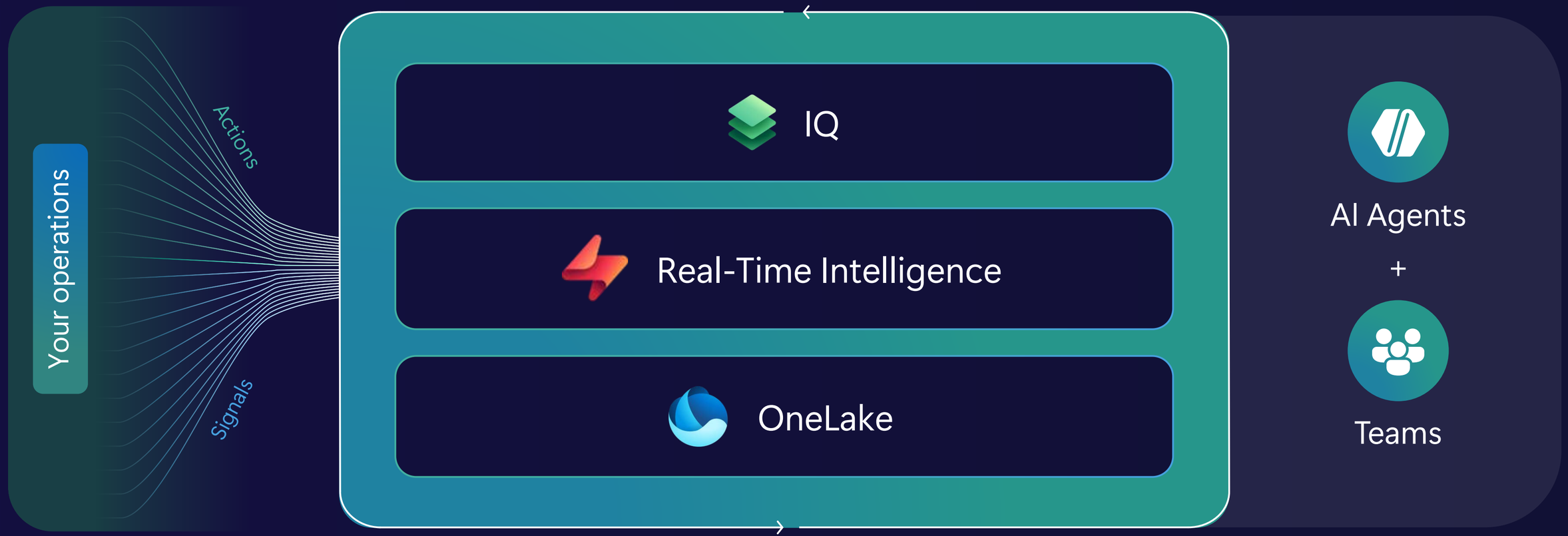
Ontology



Tables and streams

Operational systems

Operational foundation
for the modern enterprise



Roadmap for Ontology in Fabric IQ

April 2026

- Query Reliability and Performance Improvements PuPr
- Access control for Ontology PuPr
- Support for Report Links PuPr
- Ontology MCP Tools PuPr
- Ontology + Operations Agents PuPr
- Ontology + Foundry IQ PrPr
- Private Links – network isolation PuPr
- AI generated ontology (No UX) PrPr
- Ontology Management SDK PrPr
- Ontology in A365 PrPr
- UDFs for writeback actions PuPr
- Ontology as a knowledge source in Maps PuPr
- Simplified Relationship Config PuPr

August 2026

- AI-generated Ontologies PrPr
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  - Metadata enrichment PuPr
  - Query Public API PuPr
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Get hands-on

Complete the tutorial

aka.ms/ontology-tutorial

Engage

Ask questions on the forum

Submit ideas and vote

Use the docs

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Find customer success stories

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Learn more about ontologies and IQ in the playground:

aka.ms/ontology-playground

Join the Private Previews

Get involved in the Fabric IQ Private Previews

Related sessions at FabCon

Title	Date/Time
CORENOTE: Create a Single Source of Truth for Your Data, AI, and Actions	Wed, Mar 18, 3:05 PM–4:05 PM
Transform Your Business with Fabric Real-Time Intelligence	Wed, Mar 18, 4:25 PM–5:25 PM
Fabric IQ: Unlock Enterprise AI with a Unified Semantic Layer	Thu, Mar 19, 10:10 AM–11:10 AM
Fabric IQ + Foundry IQ: Unifying data and knowledge for agentic AI	Thu, Mar 19, 2:00 PM–3:00 PM
Fabric IQ + Agent 365: Identity, Governance & Tooling for Microsoft Fabric	Thu, Mar 19, 2:00 PM–3:00 PM
Connect Your Data with Fabric Graph: Why Relationships Matter for AI	Thu, Mar 19, 2:00 PM–3:00 PM
Master Eventhouse Patterns for Real-Time Intelligence at Scale	Thu, Mar 19, 4:15 PM–5:15 PM
Simplify Geospatial Analytics with Real-Time Maps in Fabric	Thu, Mar 19, 4:15 PM–5:15 PM
Build Trustworthy Real-Time AI Applications with Eventstream in Real-Time Intelligence	Fri, Mar 20, 10:10 AM–11:10 AM
Build Your First Digital Employee: A Guide to Operations Agents in Fabric	Thu, Mar 19, 11:30 AM–12:30 PM
Automate at Scale with Event-Driven Architectures and Business Events	Fri, Mar 20, 3:15 PM–4:15 PM

Sound off. The mic is all yours. Influence the product roadmap.

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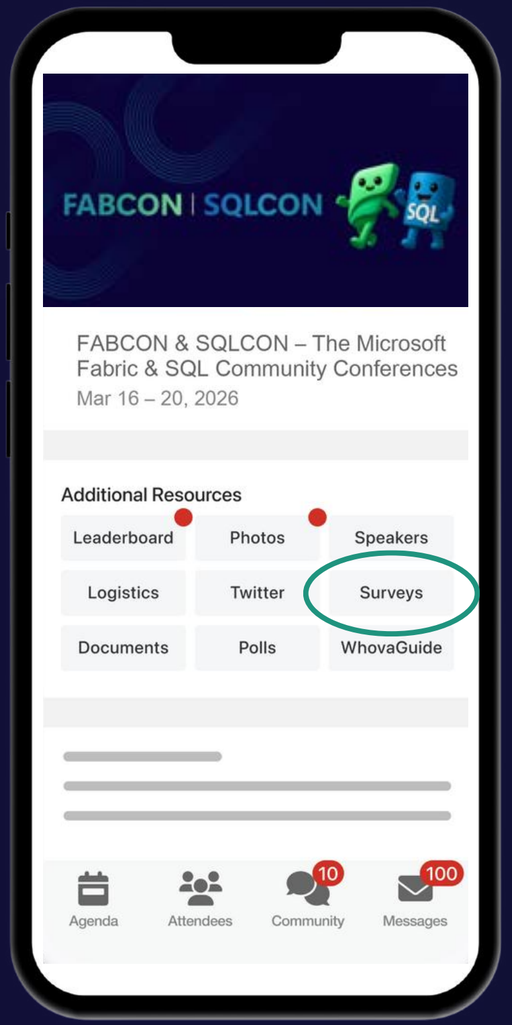
How was the session?

Complete Session Surveys in Whova for your chance to WIN PRIZES!

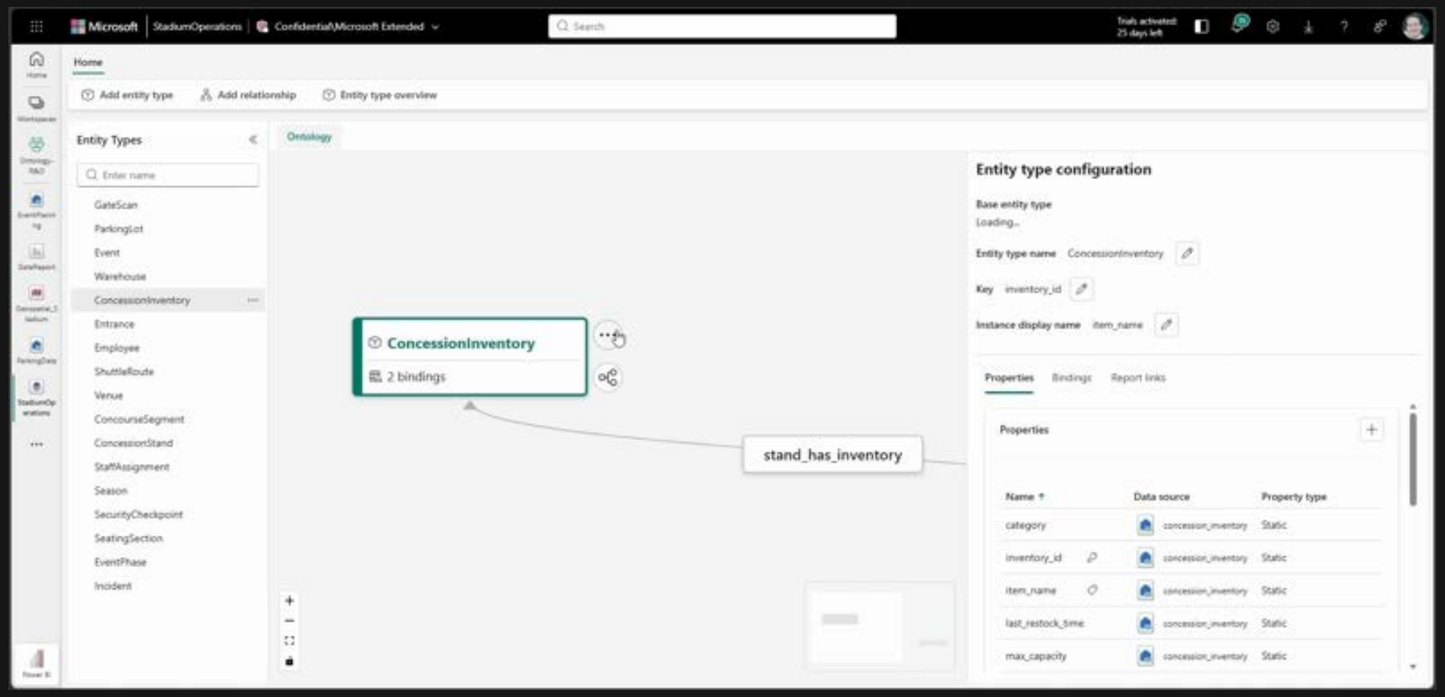


Ontology Consumption

Ontology Actions & Rules in Fabric IQ

Preview ontology data and define business logic, actions, and rules

Public Preview



Provides a connected overview of your business, continuously grounded in all your data

Users easily navigate views through familiar concepts at both the instance and fleet level

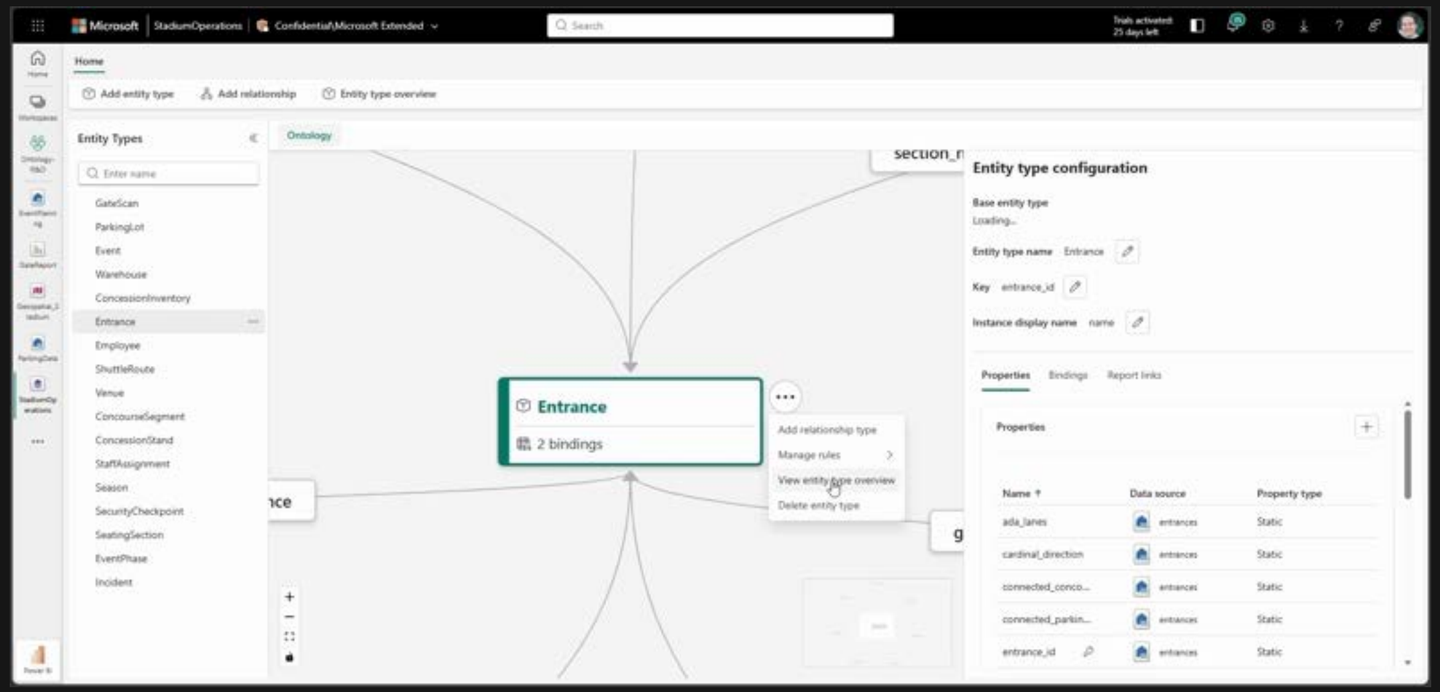
Overlay geospatial analytics on top of your operational context shaped by your ontology

Embed no-code rules to automatically trigger alerts, actions, and workflows to turn insight into action

Ontology Graph Analytics in Fabric IQ

Gain system-wide insights with graph analytics

Public Preview



Reveal hidden patterns, dependencies, and ripple effects across processes, customers, and supply chains

Detect multi-hop opportunities and risks that traditional reporting and BI tools cannot easily surface

Get a governed graph out-of-the-box, powered by Fabric Graph

Move from siloed optimization to true system-level intelligence that improves decisions end-to-end

Demo

Using Ontology

Home

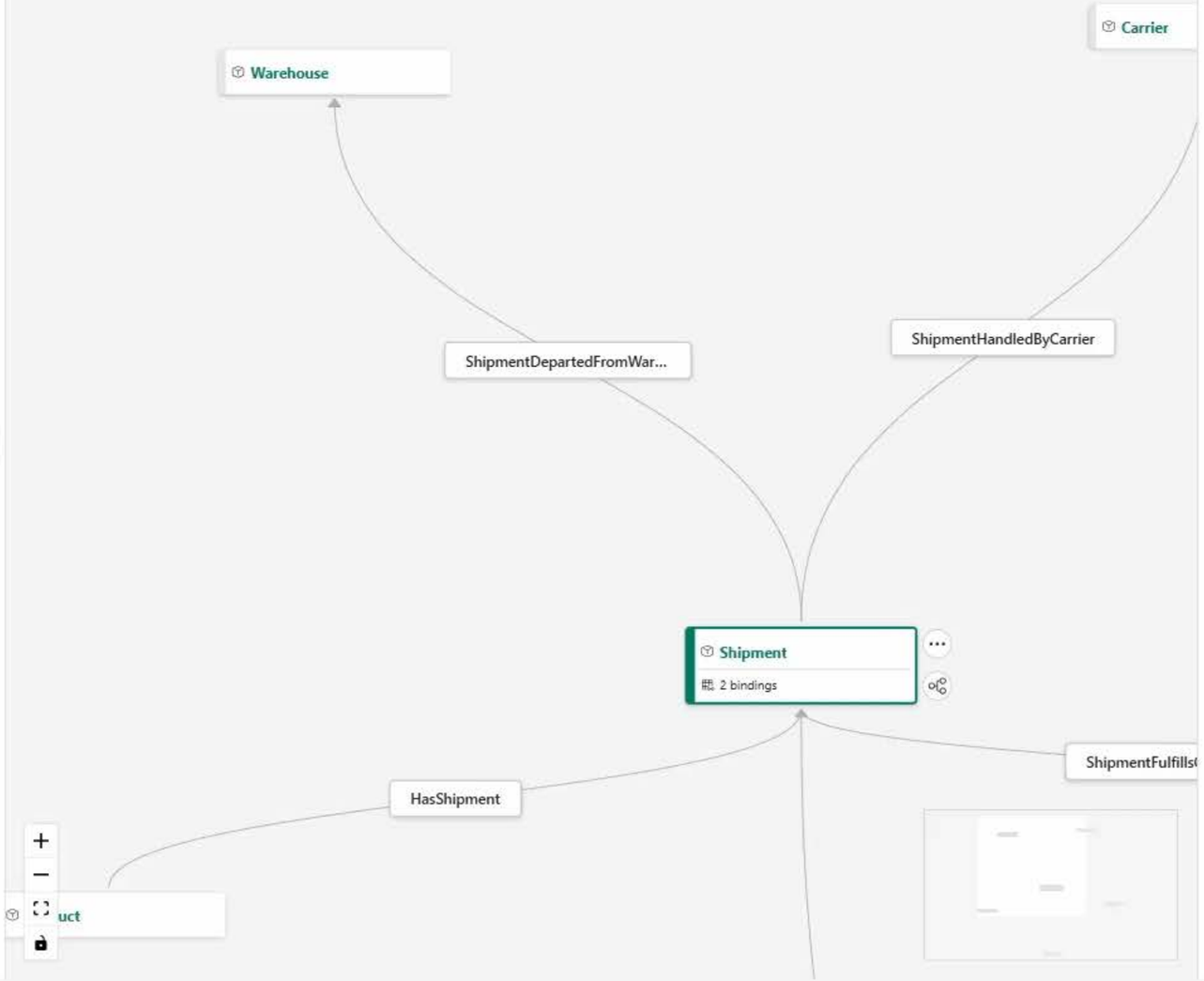
Add entity type | Add relationship | Entity type overview

Entity Types

Enter name

- Order
- Region
- Product
- Forecast
- Customer
- Return
- Store
- Warehouse
- Carrier
- DemandSignal
- OrderLine
- ProductCategory
- Shipment
- Promotion
- Inventory

Ontology



Entity type configuration

Base entity type
Loading...

Entity type name Shipment

Key ShipmentId

Instance display name ShipmentId

Properties | Bindings | Report links

Properties

Name	Data source	Property type
ActualDeliveryDat...	shipments	Static
CarrierId	shipments	Static
DelayMinutes	shipments	Timeseries
EstimatedDelivery...	shipments	Static
InTransitHumidity...	shipments	Timeseries
InTransitTemperat...	shipments	Timeseries
Latitude	shipments	Timeseries
Longitude	shipments	Timeseries
OrderId	shipments	Static

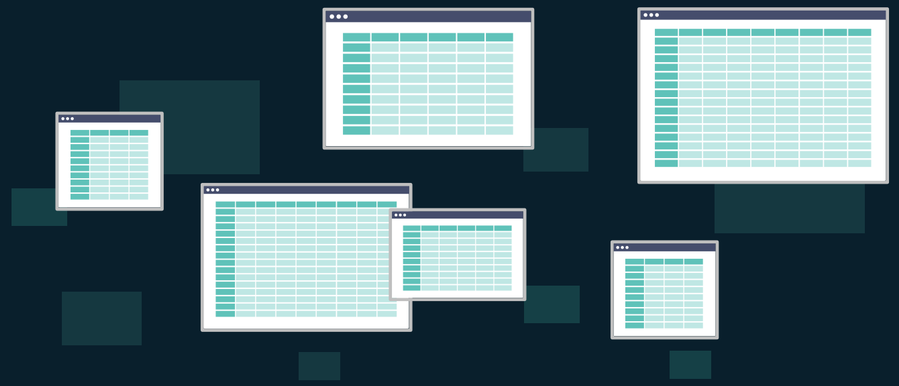
Ontology as semantic context for AI agents

Classified as Microsoft Confidential

The Fabric IQ difference

TODAY

Interpreting tables without business context and connection to actions



AI Agents

THE FUTURE

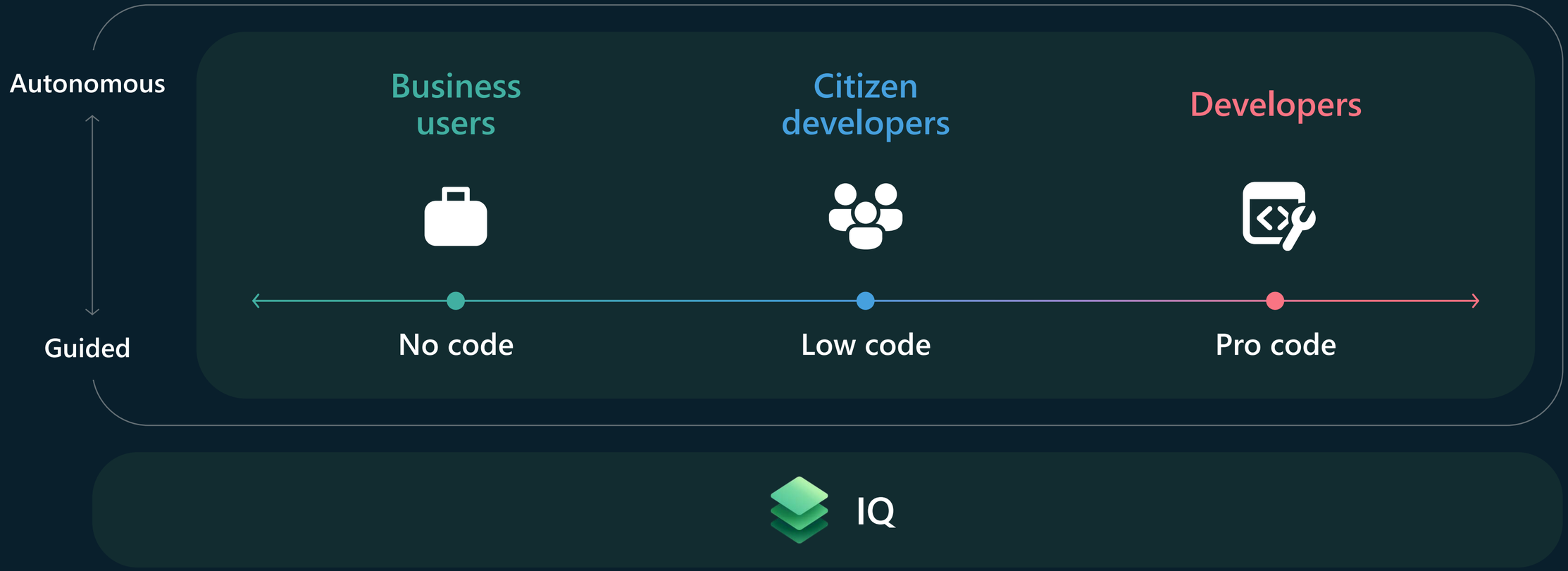
Grounded in live, unified business context connected to operational actions

AI Agents

Classified as Microsoft Confidential

Wide spectrum of AI agents

One semantic foundation. Many agents. From questions to autonomous action.



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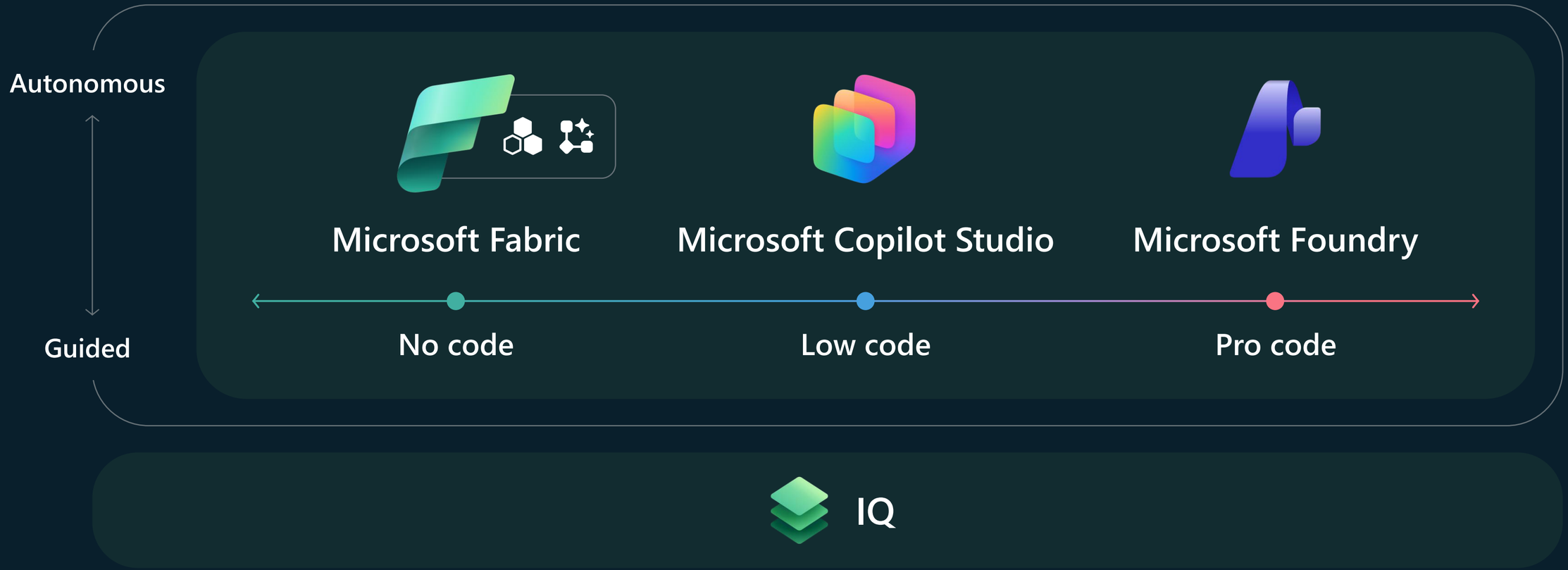

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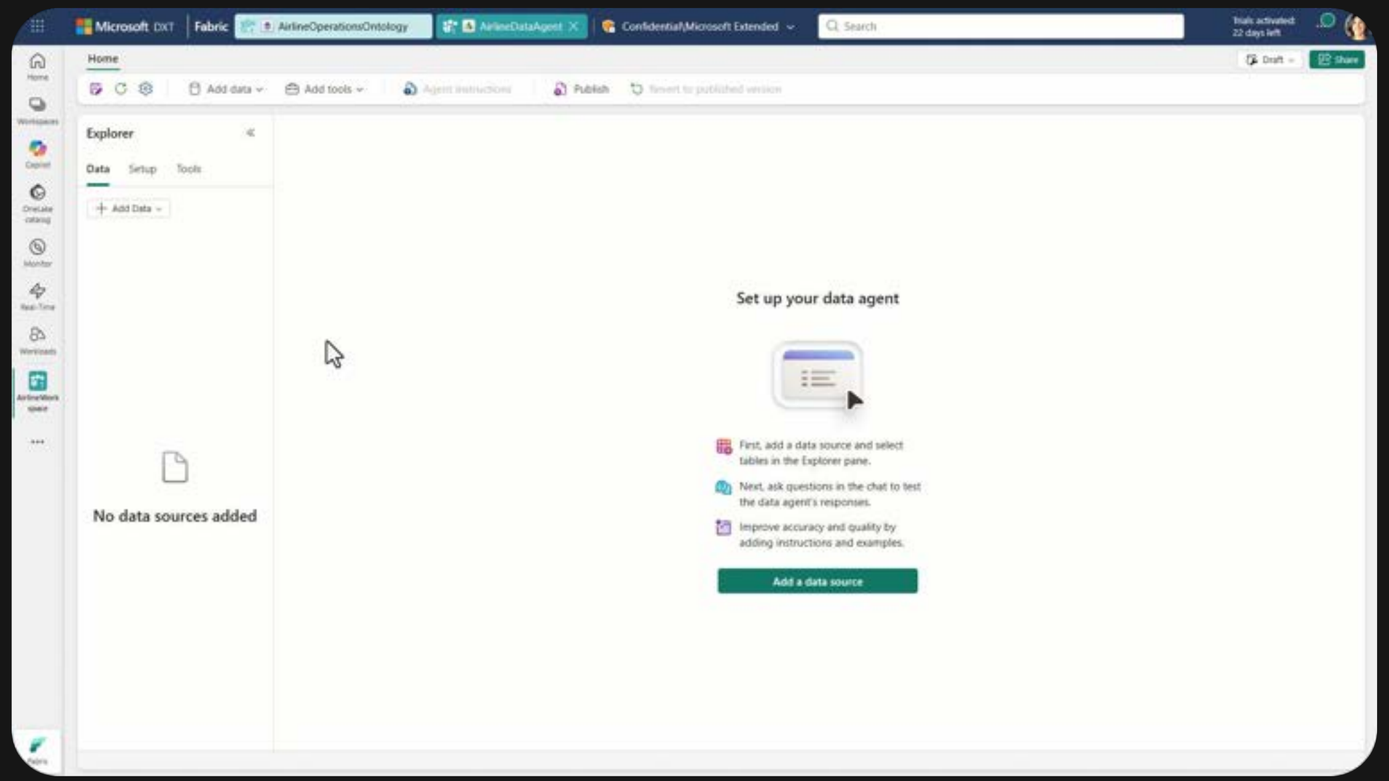
Data Agent in Fabric IQ

Enable data agents to better understand your business with Ontology

Public Preview



Enable business users to ask business questions in natural language

Uses ontology to reason over rich business entities and relationships instead of tables and columns

Embed ontology in custom applications through data agents by calling the public endpoint

Scale insight across the organization by enabling AI agents to draw from the same semantic foundation

Explorer

Data | Setup | Tools

Add Data

RetailOntology

Test the agent's responses

Clear chat

ZavaRetailExpert

ZavaRetailExpert is an AI assistant that helps users explore and analyze retail operations by connecting data across customers, regions, stores, supply chains, and orders to deliver clear business insights.

What are the historical trends across all my data?

Analyze recent data for any outliers

Show me the details for a specific subcategory of data

Sample questions

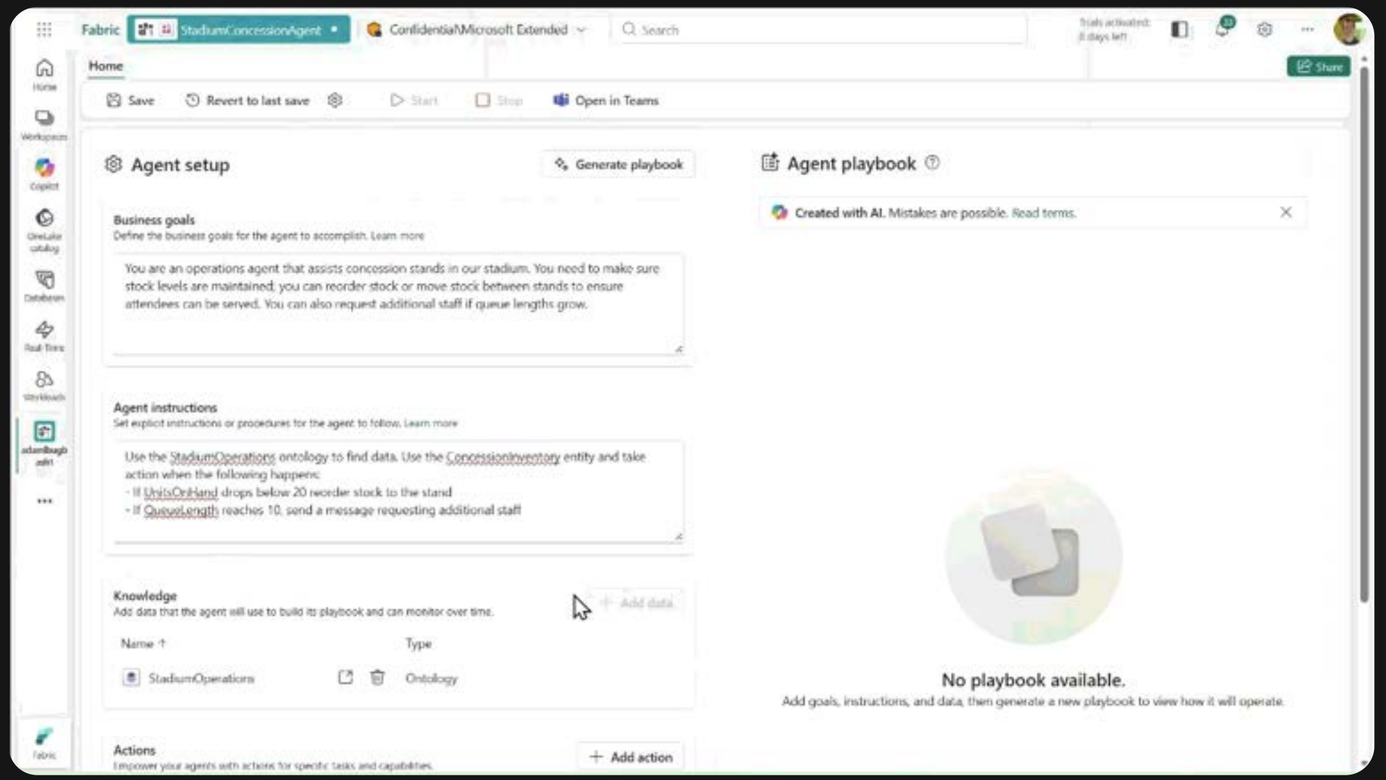
Ask a question to test the data agent's response

Created with AI. Mistakes are possible. Review terms

Operations Agent in Fabric IQ

Build AI agents that drive your operations autonomously

Public Preview



Continuously monitors your operations and detects opportunities and risks as they emerge

Create operations agents with simple instructions in natural language, no code or developer required

Connect it to your ontology so it reasons over the live business context and chooses the best action

Executes decisions with human oversight on AI-assisted actions

Microsoft IQ

Unified intelligence for enterprise AI

Work IQ

“How your employees work”

Context on people, collaboration, and workflows

Fabric IQ

“The state of your business”

Context on business entities, systems of record, and actions

Foundry IQ

“Your institutional knowledge”

Context on policies, authoritative documents, and knowledge bases

INTRODUCING

Fabric IQ MCP Server

Secured by Agent 365

Query Ontologies
Built on Fabric IQ

+

Governed & Secure
Enterprise-ready by Agent 365

Microsoft + NVIDIA

Strategic partnership to deliver an integrated platform to power Physical AI

Fabric Real-Time Intelligence

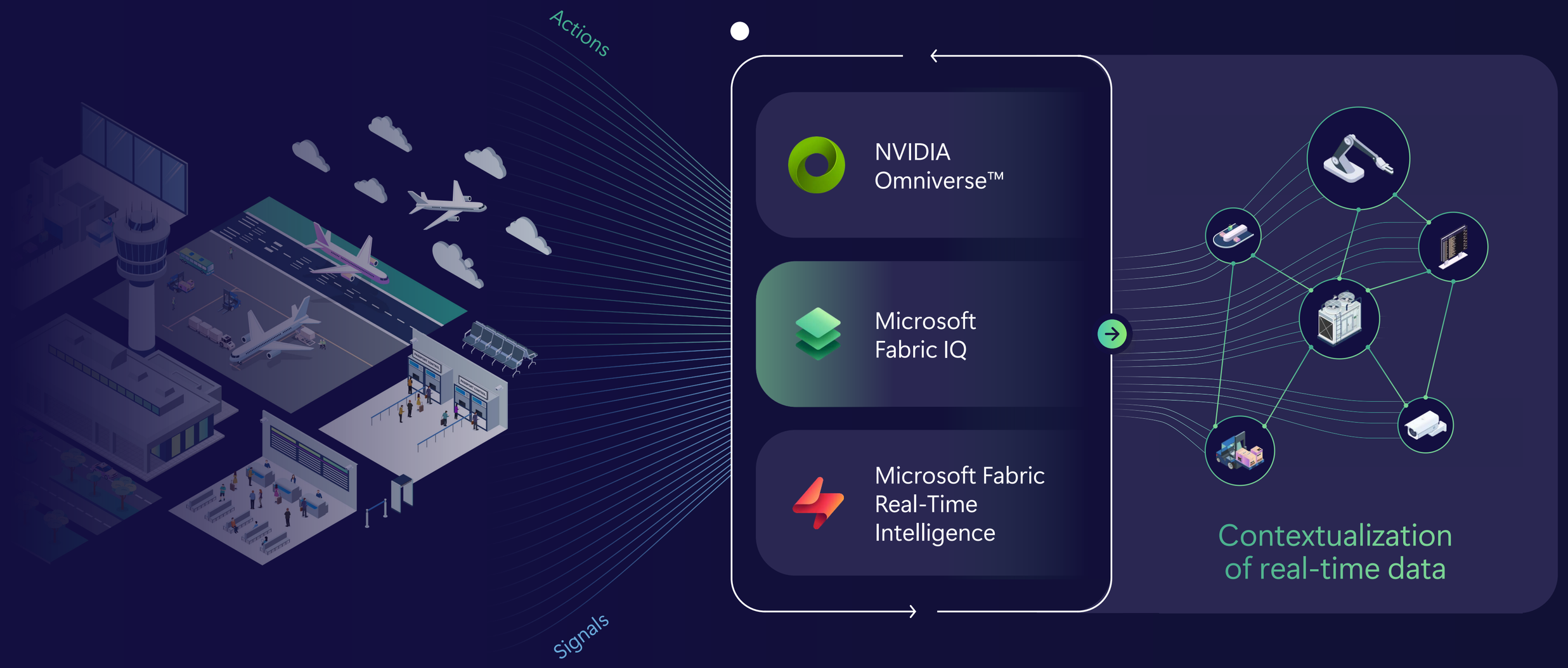
Streaming data platform for physical AI

Fabric IQ

Semantic intelligence platform for physical AI

NVIDIA Omniverse™

Open libraries and technologies for simulation and physical AI


Actions
NVIDIA Omniverse™
Microsoft Fabric IQ
Microsoft Fabric Real-Time Intelligence
Contextualization of real-time data
Signals

Actions

Signals

NVIDIA Omniverse™

Microsoft Fabric IQ

Microsoft Fabric Real-Time Intelligence

Real-time 3D visualization and physical simulation

Roadmap for Ontology in Fabric IQ

April 2026

- Query Reliability and Performance Improvements PuPr
- Access control for Ontology PuPr
- Support for Report Links PuPr
- Ontology MCP Tools PuPr
- Ontology + Operations Agents PuPr
- Ontology + Foundry IQ PrPr
- Private Links – network isolation PuPr
- AI generated ontology (No UX) PrPr
- Ontology Management SDK PrPr
- Ontology in A365 PrPr
- UDFs for writeback actions PuPr
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Join the SQL User Panel

Influence our SQL roadmap and ensure it meets your real-life needs

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