Data Architecture Approach with SAP LeanIX

24th June 2026

Global Enterprise Architecture Excellence Team

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Agenda

- SAP's Strategy for Data & AI with SAP Business AI Platform
- Deep Dive: Modelling Guidelines for Data Architect
- The Next Frontier: LeanIX MCP Server Use Cases
- **Demo:**
  - Data Architecture Modelling Approaches
  - Data Product Mapping
  - Claude Code with MCP
- Questions & Answers

Architecting the Autonomous Enterprise

WEBINAR SERIES FOR ARCHITECTS, BY ARCHITECTS

A COMPLETE LEARNING JOURNEY

1. VISION & STRATEGY

Understand the vision and SAP's evolved portfolio.

2. AI-NATIVE ARCHITECTURE & AGENTS

Design and build AI-native architectures and manage AI agents at scale.

3. DATA, PLATFORM & INDUSTRY AI

Build a strong data foundation and leverage industry AI.

4. LEADING THE AUTONOMOUS ENTERPRISE

Lead, govern, and scale the Autonomous Enterprise.

01	02	03	04	05	06	07	08	09	10	11	12	13
1 JUNE	10 JUNE	16 JUNE	26 JUNE (FRIDAY)	1 JULY	8 JULY	14 JULY	16 JULY	22 JULY	29 JULY	5 AUG	19 AUG	20 AUG
Unpacking SAP's Autonomous Enterprise for Architects	What SAP's Evolved Portfolio Means for Architects?	Architecting From Intent to Action with Joule Work & Knowledge Graph in the Context System	Playbook for Building Your Own SAP Agents	From Patterns to Consumption: SAP's Innovation Factory for Architecting and Activating AI in SAP Landscapes	An Architect's Guide to AI Agent Lifecycle Management at Enterprise Scale	An Architect's Guide to the SAP Family of Models	The AI North Star Architecture and AI Golden Path: From Reference to Reality	Data Foundations for an Autonomous Enterprise	From Autonomous Domains to Industry AI: One Platform, Two Lenses	AI Governance and Security for an Autonomous Enterprise	Role of an Enterprise Architects in driving Autonomous Enterprise	The Human-Agent Orchestrator: Leading, Governing, and Scaling the Autonomous Enterprise

FROM VISION TO VALUE.
Architect. Activate. Govern. Scale.

AI-POWERED ARCHITECTURE

INTELLIGENT SYSTEMS

TRUST & GOVERNANCE

PEOPLE & AGENT COLLABORATION

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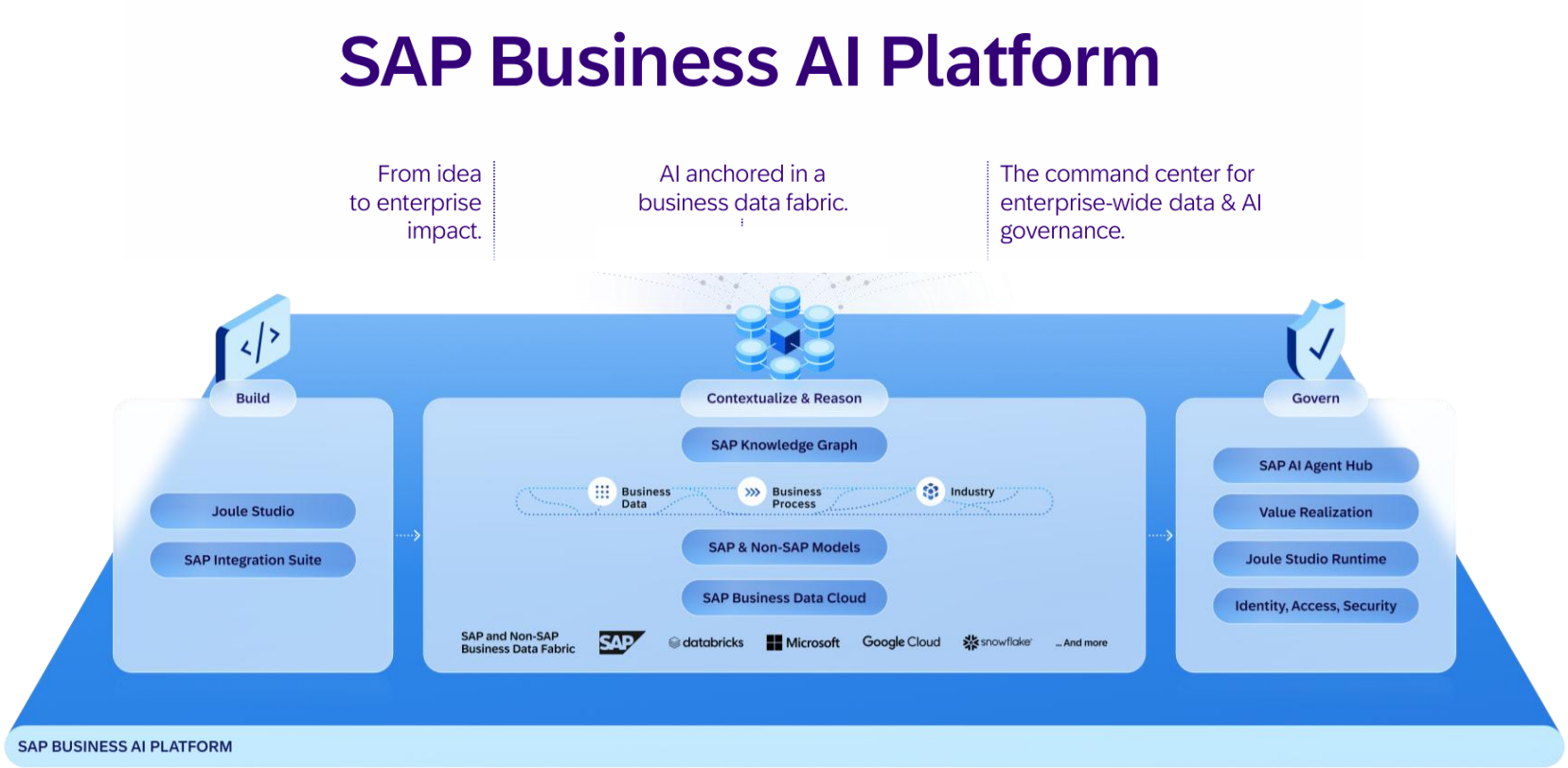
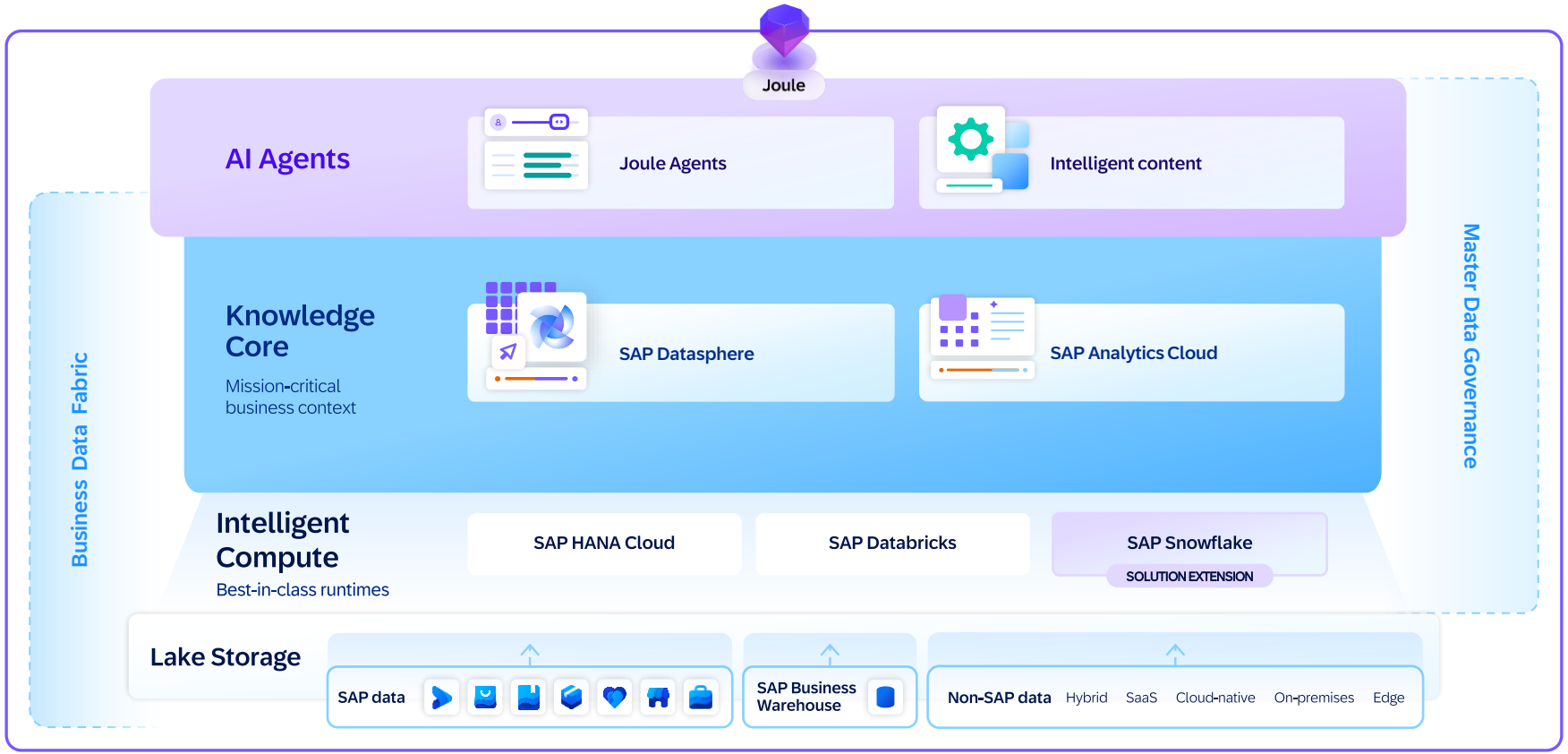
Business AI Platform now includes SAP Business Data Cloud

AI, data, governance, and runtime are now one platform



Source: From intent to execution: Build AI agents with Joule Studio | BTP2302V

SAP Business Data Cloud as a comprehensive strategy for enterprise data



Data Product Creation Agent

Joule Studio - Data Product Creation Agent

Vision

Definition:

The data product creation agent helps you discover existing data products and create new derived data products including transformations. That way you can build the data foundation for your agents and applications.

Business Value:

- Create single LoB derived data products based of SAP managed public data products
- Faster turnaround time from insight to action.
- *Leverage embedded graphical experience in Joule Studio for fine-grain data product modelling*

Example Prompt:

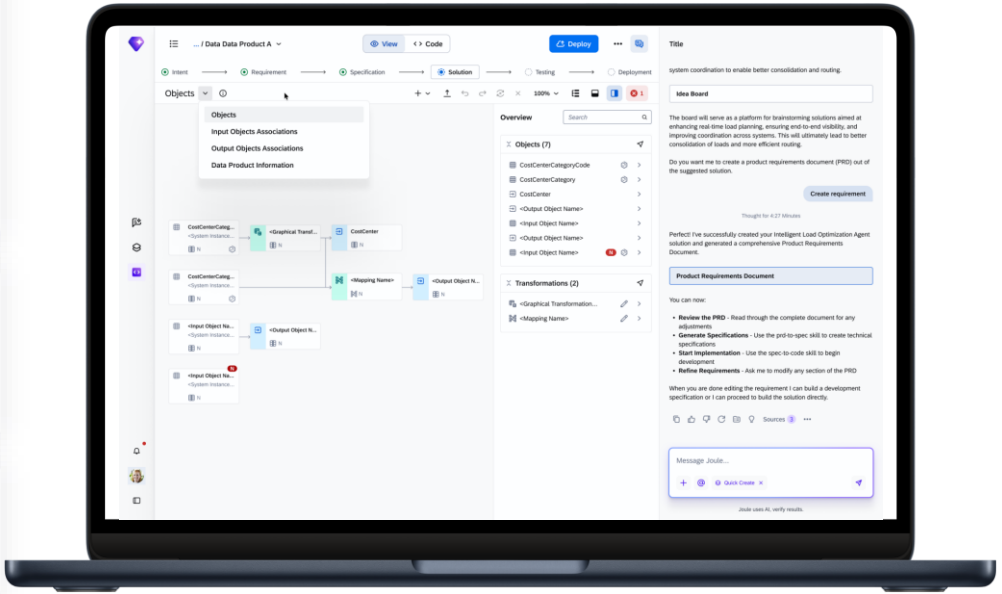
- *“Show data products regarding budget management”*
- *“Create a data product to simplify the cost center data. It shall only display all currently active cost centers .”*

Release schedule

- Q4’2026 (create derived data products with Joule Studio)

Agent Developer

Create derived data products, build agents, and pro-code intelligent applications by utilizing data and AI services.



Solutions

+ New

All statuses · All types · Anytime

Order to cash data product
Created 1 min ago
Derived data product combining Sales Orders and Billing Documents to create a real-time Order-to-Cash data foundation for r… cash flow acceleration, and automated reporting.
1 Data Product

Order to cash data product
Created 1 min ago
A real-time Order-to-Cash data foundation combining Billing Documents to protect revenue, accelerate cas… eliminate manual reporting.

Order to cash data product
Created 18 min ago
A derived data product combining Sales Orders and B… to create a real-time Order-to-Cash data foundation f… protection, cash flow acceleration, and automated rep…
1 Data Product

Order to cash data product
Created 19 min ago
A derived data product combining Sales Orders and B… to create a real-time Order-to-Cash data foundation f… protection, cash flow acceleration, and elimination of…

Order to cash data product
Last updated 05/11/2026 10:08 AM
Derived data product combining Sales Orders and Bil… create a real-time Order-to-Cash analytical foundatio… protection and cash flow acceleration.

Billing completeness agent
Last updated 05/09/2026 10:43 AM
95%
1 Agent · 1 Data Product

Order to cash intelligence assistant
Last updated 05/08/2026 11:56 PM
A real-time Order-to-Cash intelligence assistant combining Sales Orders…

Order to cash data product

Open

Overview

Creation
Created on: May 11, 2026
Created by: fenja.schulz@sap.com

Updates
Last updated on: May 11, 2026
Last updated by: fenja.schulz@sap.com

Ownership
Line of business: -
Product: -

Welcome, Philipp Herzig

What do you want to create?

Agent
Create and deploy custom agents tailored to your SAP landscape and business processes.
Create

n8n Workflow
Build agentic workflows that orchestrate SAP and n8n agents and automations across the enterprise.
Create

Application
Build a web application to allow users to manage business data from SAP systems.
Create

Extension
Develop custom solutions such as agent extensions, data model extensions, and agent skills.
Create

escribe the solution you want to build with Joule Studio...

Quick Create ×

AI generated. Verify results.

Order to cash data product

Read file: OrderToCashFoundation.dpd

Called 4 tools

Here are the first 10 rows of the **Order-to-Cash Foundation** data product …data — live execution runs in BDC formation once provisioning …):

…rder	SO Type	Sales Org	Sold-to Party	SO Date	Overall Status	Delivery Status	Net Amount (SO)	Curr
…7712TA		1710	0001000651	2026-02-23	A (Open)	—	97,502.00	USD
…7710TA		1710	0001000651	2026-B (In 01-27Process)		—	97,502.00	USD
…7711TA		1710	0001000652	2026-B (In 01-27Process)		—	146,436.00	USD
…7707TA		1710	0001000650	2026-C 01-26(Completed)		—	849.00	USD
…7709TA		1710	0001000654	2026-B (In 01-26Process)		—	111,602.00	USD
…7708TA		1710	0001000653	2026-B (In 01-26Process)		—	97,502.00	USD
…7705TA		1710	0001000652	2026-B (In 01-25Process)		—	97,502.00	USD
…7706TA		1710	0001000651	2026-B (In 01-25Process)		—	97,502.00	USD
…7704TA		1710	0001000653	2026-B (In 01-24Process)		—	97,502.00	USD
…7703TA		1710	0001000652	2026-C 01-23(Completed)		—	97,502.00	USD

…rvations:

- …rows show **"Not Billed"** — confirming the left outer join is working …tly (no matching billing documents exist for these orders yet, or …aven't been billed)
- **…Org 1710**, type **TA** (standard orders) — consistent source system
- …ll SD Process Status codes: `A` = Open, `B` = In Process, `C` = …leted
- …mounts range from **849 USD** to **146,436 USD** per order
- … in Billing Document columns confirms the left join returns nulls … no billing document exists — exactly the "revenue at risk" pattern this data product was designed to surface

Note: This is sample/fallback data. Live execution against the BDC formation will use the full CSN context from the provisioned data product (`customer.dps:dataProduct:OrderToCashFoundation:v1`).

Message Joule...

AI generated. Verify results.

Strategy to Execution

Data Architect in collaboration with Enterprise Architects will play an extremely important role in making AI successful

Contextualizing Data

Moving from "What Data Do We Have?" to "Why Does It Matter?”

The EA-to-DA Bridge:
EA maps the strategic Business Capabilities (e.g., Customer Retention), while DA maps the underlying Data Objects (e.g., Churn Risk Indicators).

Operationalizing Data

Treating Applications as the ”Strategic System" for Data Products

The EA-to-DA Bridge:
EA manages the inventory of Applications and Interfaces, while DA manages the Data Products and Flows running through them.

Democratizing Architecture

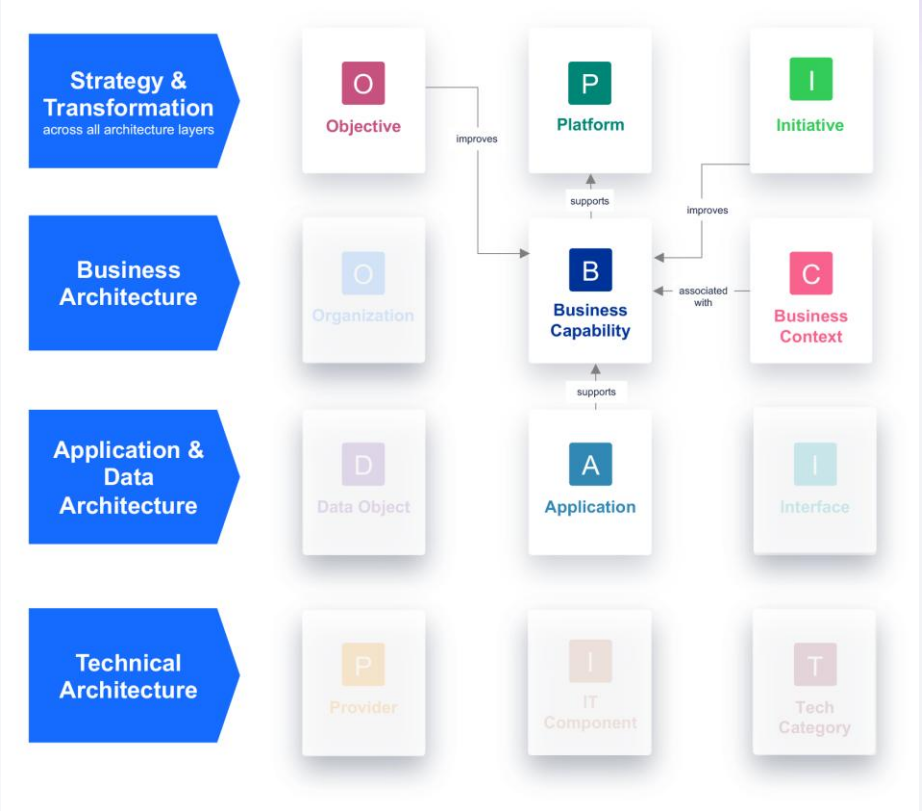
Transitioning from Static Blueprints to Active Governance

The EA-to-DA Bridge:
Combining EA's system maps with DA's data domain boundaries creates a unified, single source of truth for the entire enterprise.

Modelling Guidelines for Data Architect

SAP LeanIX business capability modelling is designed to create a stable view of what the business does, so you can connect strategy, applications, and transformation planning.

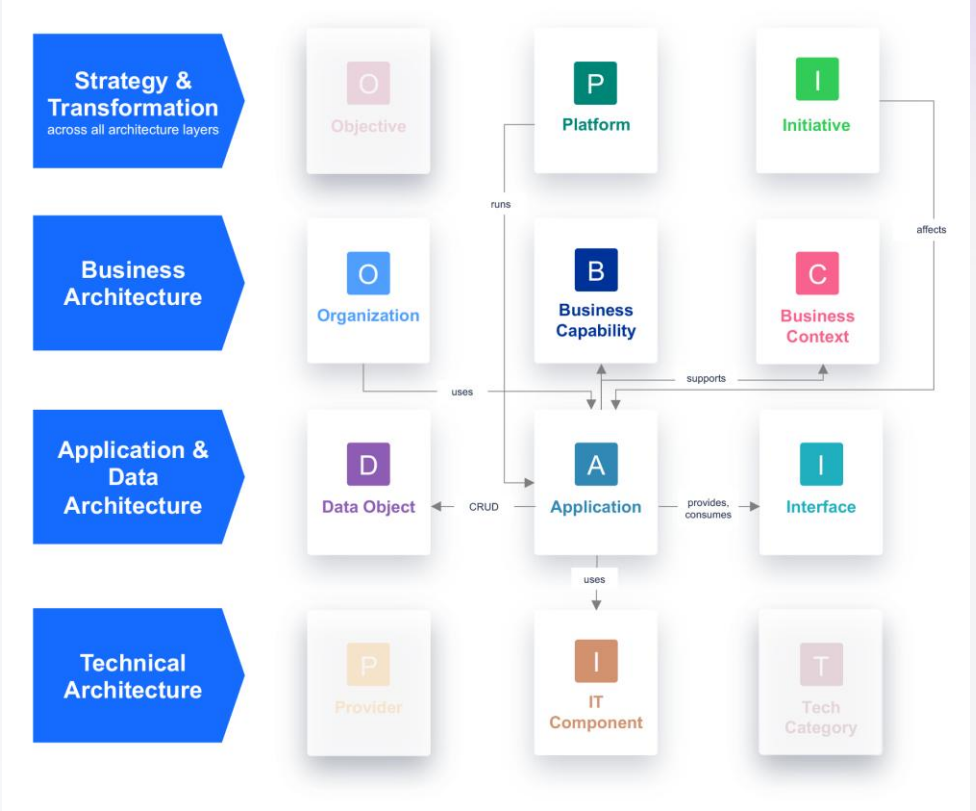
- Model capabilities as business functions, not systems or processes. The goal is to describe enduring business outcomes and activities that the organization needs to perform.
- Use the capability map to group applications by functionality and to reveal overlap, gaps, and dependencies across the portfolio.
- In short, business capability modeling in LeanIX helps you create a stable enterprise view that links strategy to execution, supports application rationalization, and improves transformation planning.



Modelling Guidelines for Data Architect

SAP LeanIX application modelling is about creating a clear, usable, and decision-oriented view of the application landscape.

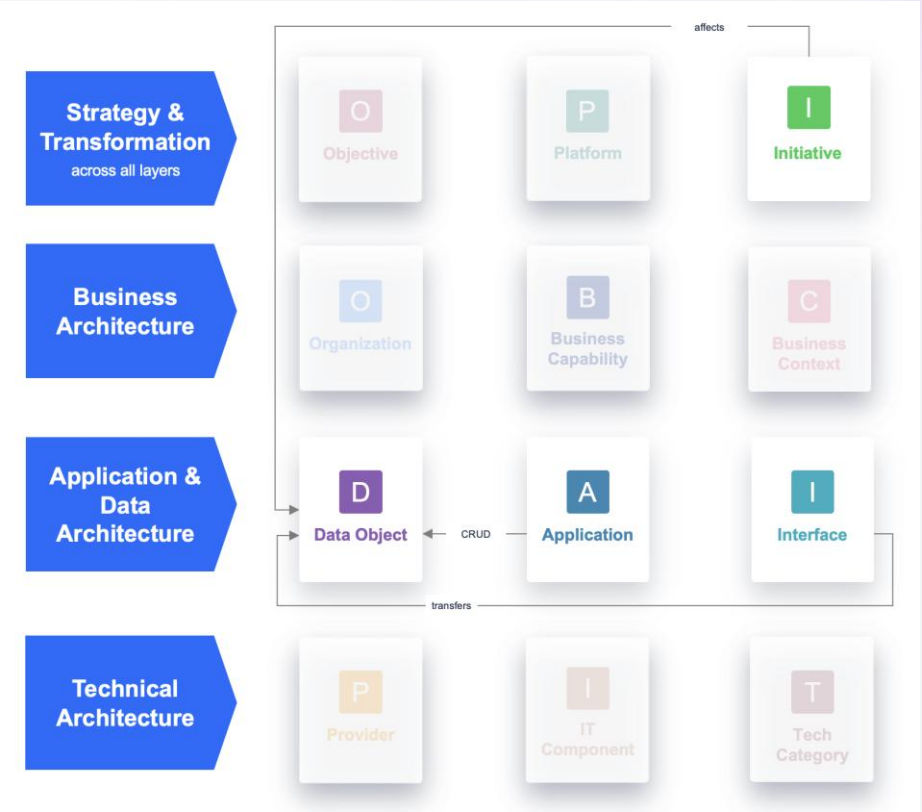
- Use the standard LeanIX model first and only extend it when the business need is clear. Adding subtypes, custom fields, tags, or hierarchies' increases maintenance effort, so keep the model lean and purposeful.
- Capture relationships that matter, such as business capabilities, platforms, interfaces, and dependencies, so the model supports impact analysis and transformation planning.
- In short, the guideline is: start small, model what drives decisions, and evolve the architecture repository only where it creates real value.



Modelling Guidelines for Data Architect

SAP LeanIX data object modelling is about representing key business data in a simple, stable, and reusable way across the enterprise architecture.

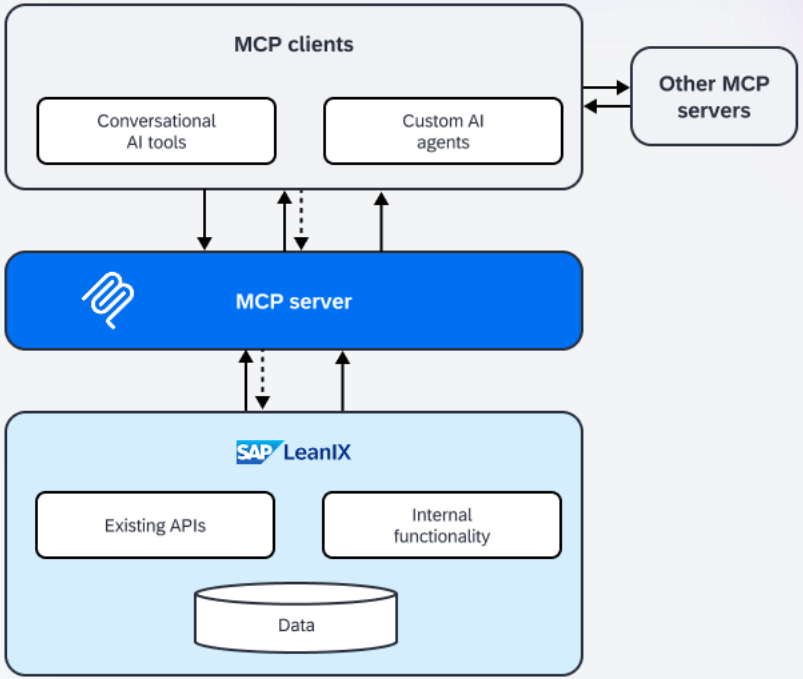
- Data objects help architects understand what information is exchanged between applications and support migration, integration, and transformation planning.
- Model data objects at a conceptual level, not as detailed database structures. The goal is to describe meaningful business data such as customer, product, order, or invoice, not tables or technical fields.
- In short, data object modelling in LeanIX helps you create a durable enterprise view of business information so you can improve integration understanding, support transformation work, and reduce data landscape ambiguity.



SAP LeanIX: MCP Server

The SAP LeanIX **MCP Server** enables **external AI applications and agents to securely access LeanIX** enterprise architecture data through the Model Context Protocol.

- It connects external AI tools to LeanIX in a secure and governed way, rather than exposing architecture data through bespoke point-to-point integrations.
- It is aimed at modern AI use cases such as querying fact sheets, retrieving reports or diagrams, and interacting with architecture content through natural language agents.
- In short, the MCP Server makes LeanIX a usable knowledge source for AI agents, while preserving enterprise control, consistency, and security.



Connecting to the MCP Server

Perquisite:
- Admin Right in LeanIX Workspace
- Configure Authentication Settings

Configuration Steps:
Go to Administration > Integrations.
1. Choose MCP Server.
2. On the MCP server configuration page, choose your preferred authentication methods. Both methods are enabled by default:
    - User-Based Authentication: Allows individual users to authenticate using OAuth.
    - Technical Users: Allows technical users (service accounts) to authenticate using API tokens.

Authentication Method	Description	Endpoint	Details
User-based authentication (OAuth)	Individual users authenticate through a standard OAuth 2.0 flow. They're prompted to sign in to their workspace from the browser. Authentication expires in 24 hours.	`https://mcp.leanix.net/services/mcp-server/v1/mcp`	OAuth
Technical user authentication	Technical users (service accounts) authenticate using an API token. Technical users are intended for automated workflows, integrations, and non-interactive access. For details on generating an API token, see Technical Users.	`https://{SUBDOMAIN}.leanix.net/services/mcp-server/v1/mcp`	Technical User Authentication

Reference links:
- SAP Help Portal: https://shorturl.at/2xkEa
- Rene de Daniel Live Demo: https://shorturl.at/oE6e9

LeanIX Demo

- Data Architecture Modelling Approaches
- Data Product Mapping
- Claude Code with MCP

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