



Core Capabilities for SAP BTP



SAP User Groups Live Expert Session

SAP Cloud Identity Services Overview, Strategy & Roadmap

Experts:

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Agenda

01

Introduction

Overview SAP Cloud Identity

02

SAP Business AI Platform & Agent Identity

Agent Governance & Security with the Cloud Identity Services

03

SAP Managed Scenarios

Changes in the shared responsibility model

04

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Summary

Key Takeaways - Q&A



Key Areas of Identity Access Management



**Consistent identity
lifecycle management**



**Authorization
Management**



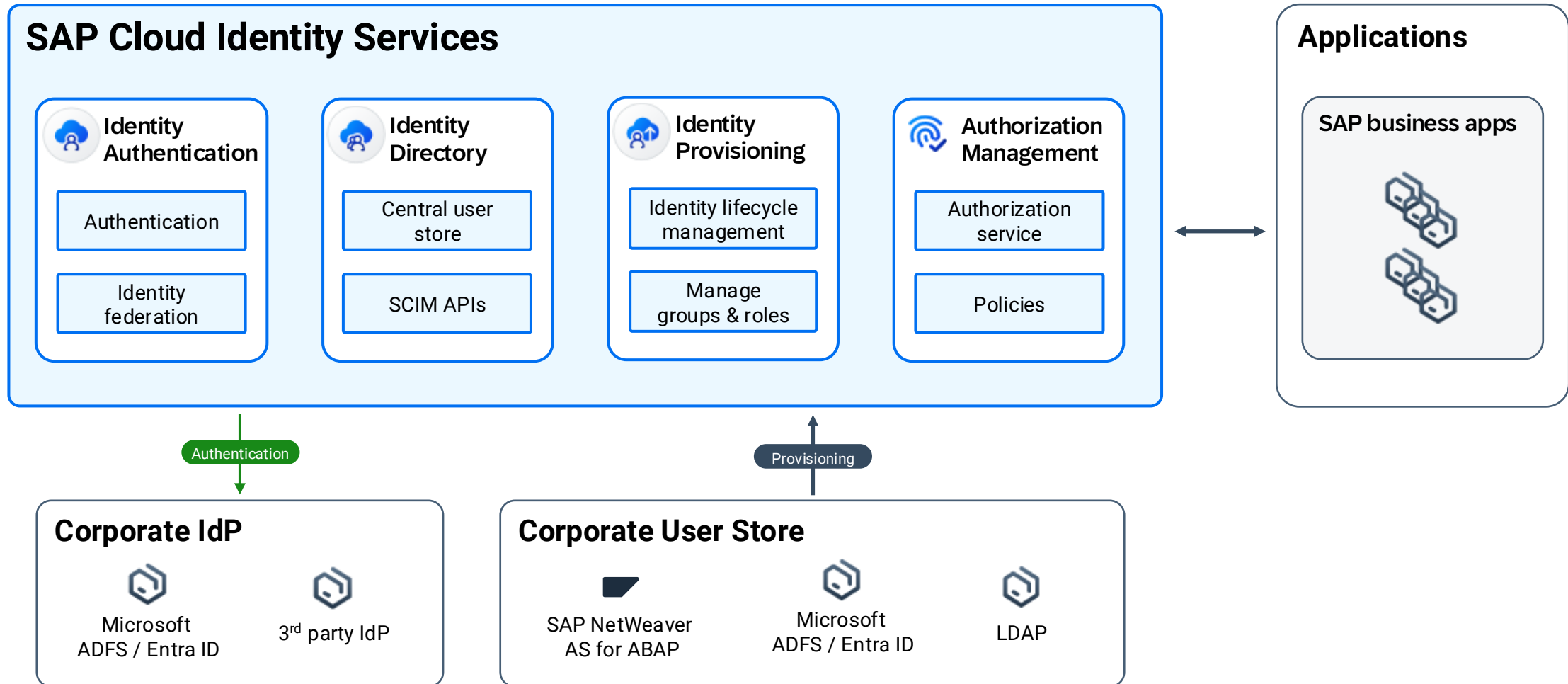
**Authentication and
Single Sign-on**

Consistent Security and Identity Access Management established with SAP Cloud Identity Services

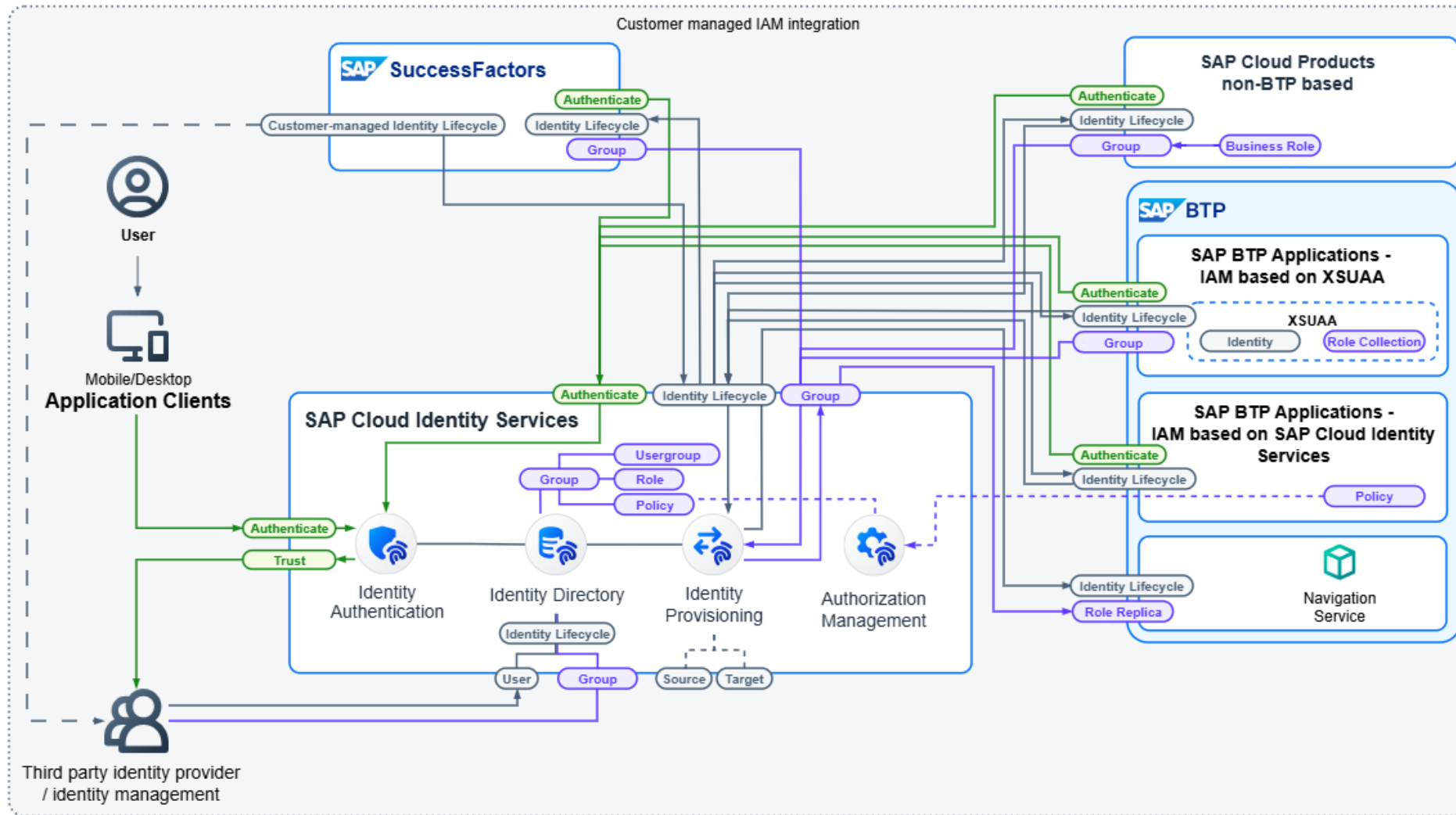
The SAP Cloud Identity Services are a key component to ensure Consistent Security and Identity Management for SAP solutions with:

- Central user store for SAP cloud applications (Joule!)
- Consistent protocol support for customer IAM (SAML/OIDC, FIDO, SCIM, ...)
- Consistent security feature set for SAP cloud applications
- Authentication broker for multiple IdPs
- Application specific attribute mapping and enrichment of tokens by corporate IdP
- Feature support for non-standard integration scenarios
- Adoption of new technologies
e.g. step-up-authentication, context-based authorizations

SAP Cloud Identity Services

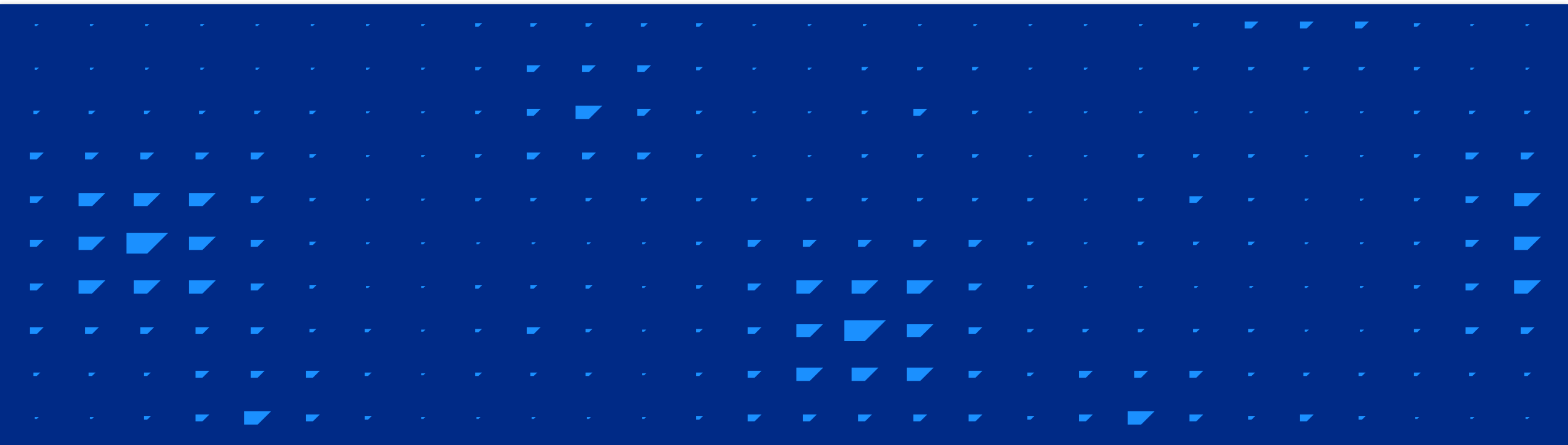


SAP Reference Architecture - Identity Access Management



SAP Business AI Platform & Agent Identity

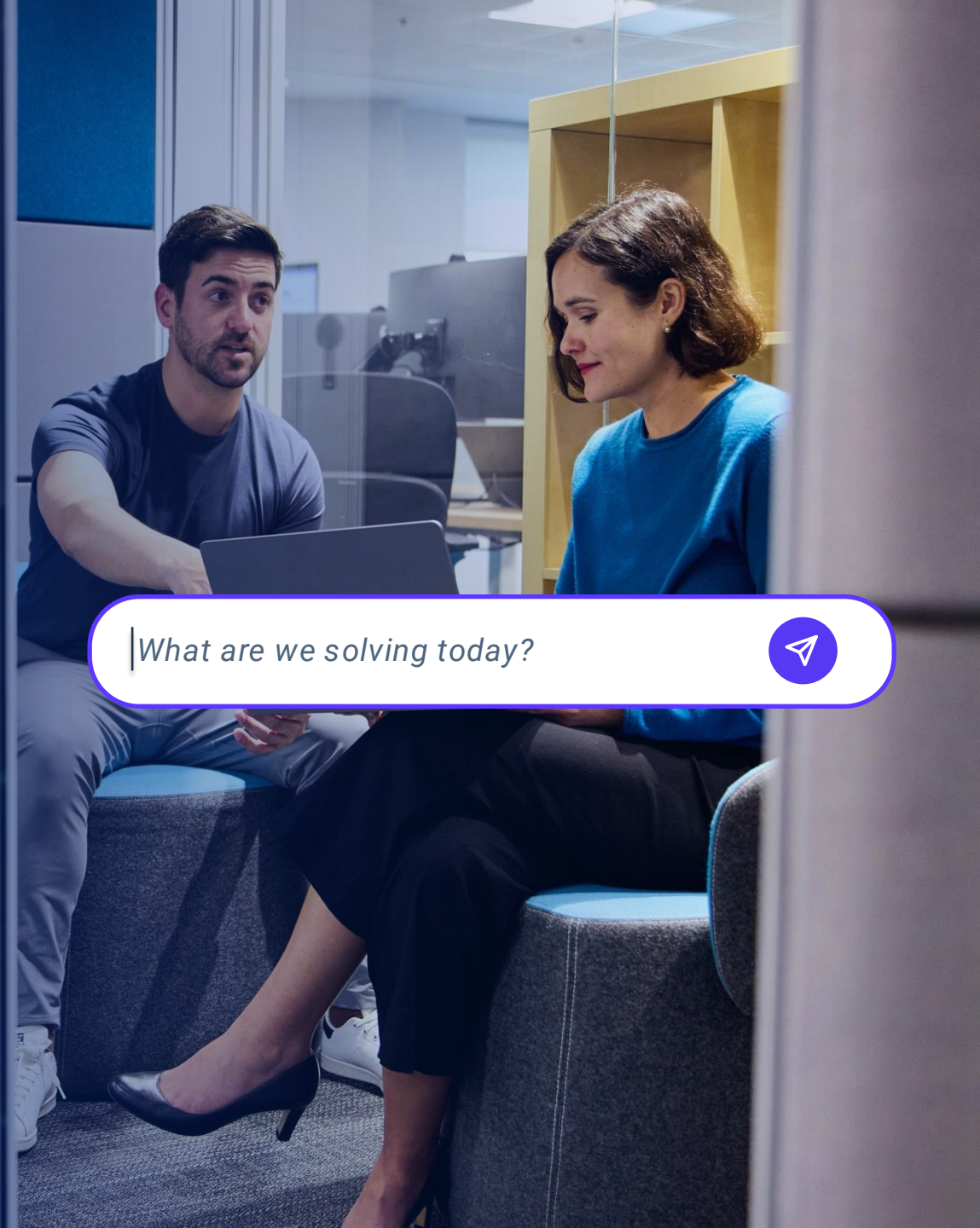
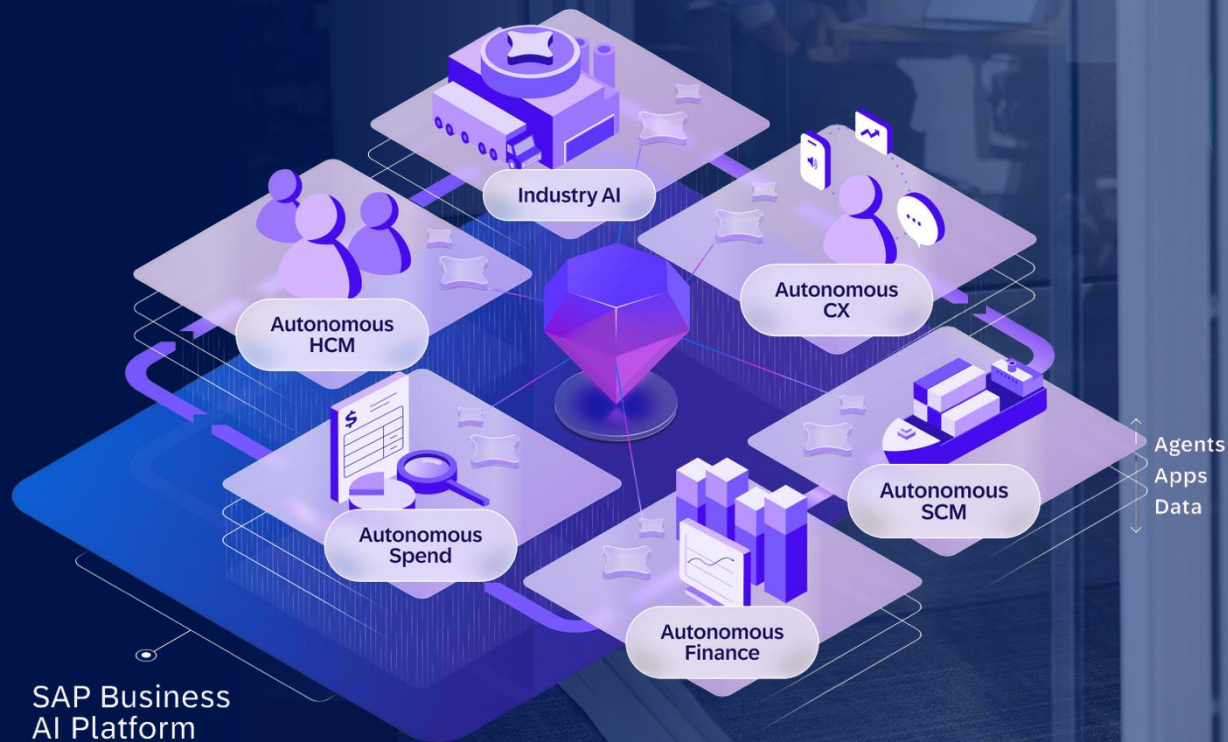
Agent Governance & Security with the Cloud Identity Services



The Beginning of Better.

Welcome to the Autonomous Enterprise

People set the direction. AI executes.



|What are we solving today?



Joule



Finance



Spend



SCM



HCM



CX



Industry AI

SAP Autonomous Domains



accenture



Capgemini



NTT



IBM

... And more

Partner Agents



... And more

Third-party AI Agents

SAP AUTONOMOUS SUITE



Build

Joule Studio



n8n



Vercel



CURSOR



Claude Code



CURSOR

... And more

SAP Integration Suite



Contextualize & Reason

SAP Knowledge Graph



Business Data



Business Process



Industry

SAP & Non-SAP Models



PRIOR



OpenAI



cohere



perplexity

... And more

SAP Business Data Cloud

SAP and Non-SAP Business Data Fabric



... And more



Govern

SAP AI Agent Hub



Google



... And more

Value Realization

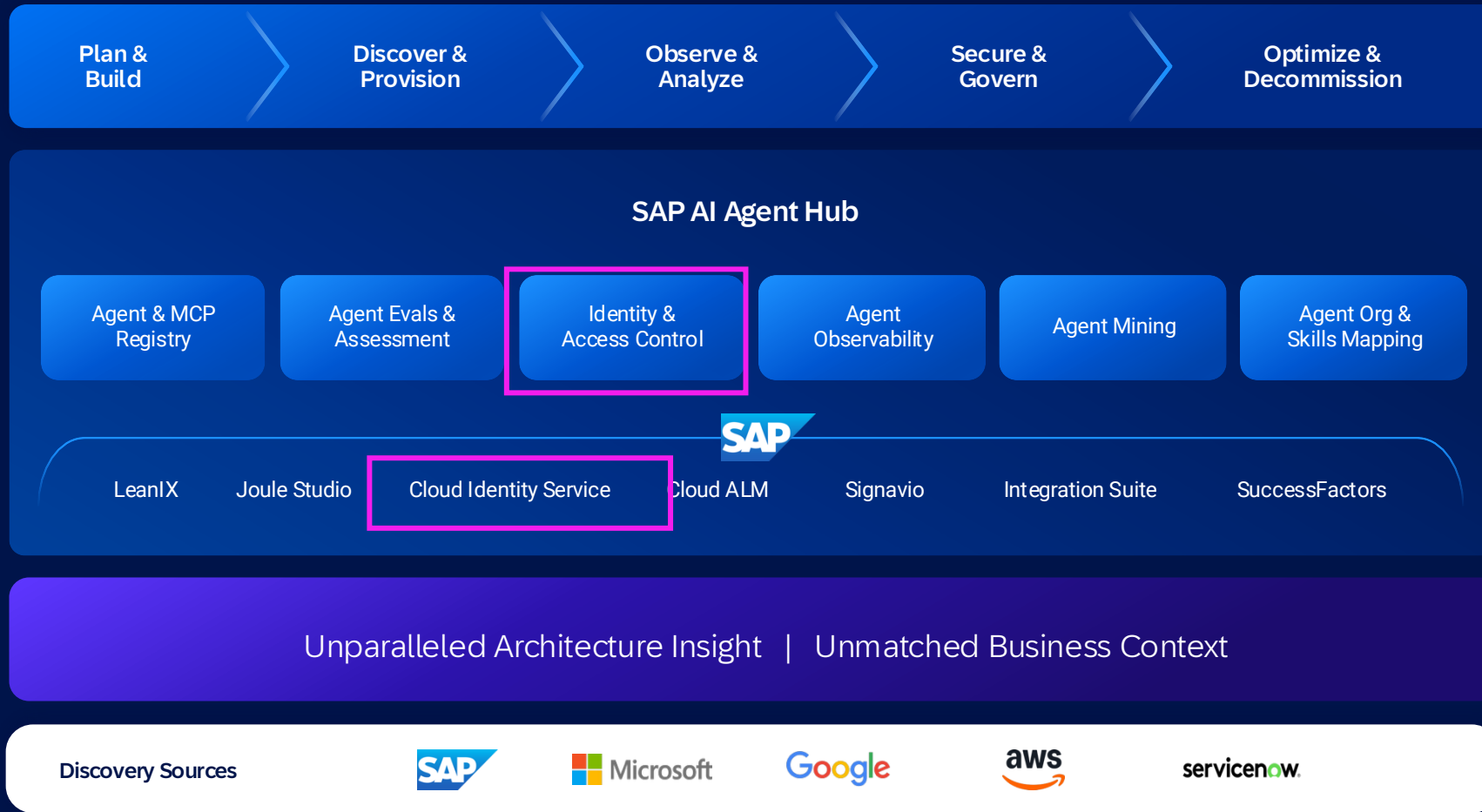
Joule Studio Runtime



Identity, Access, Security

SAP BUSINESS AI PLATFORM

SAP AI Agent Hub: Your command center for AI governance



Agent Identity

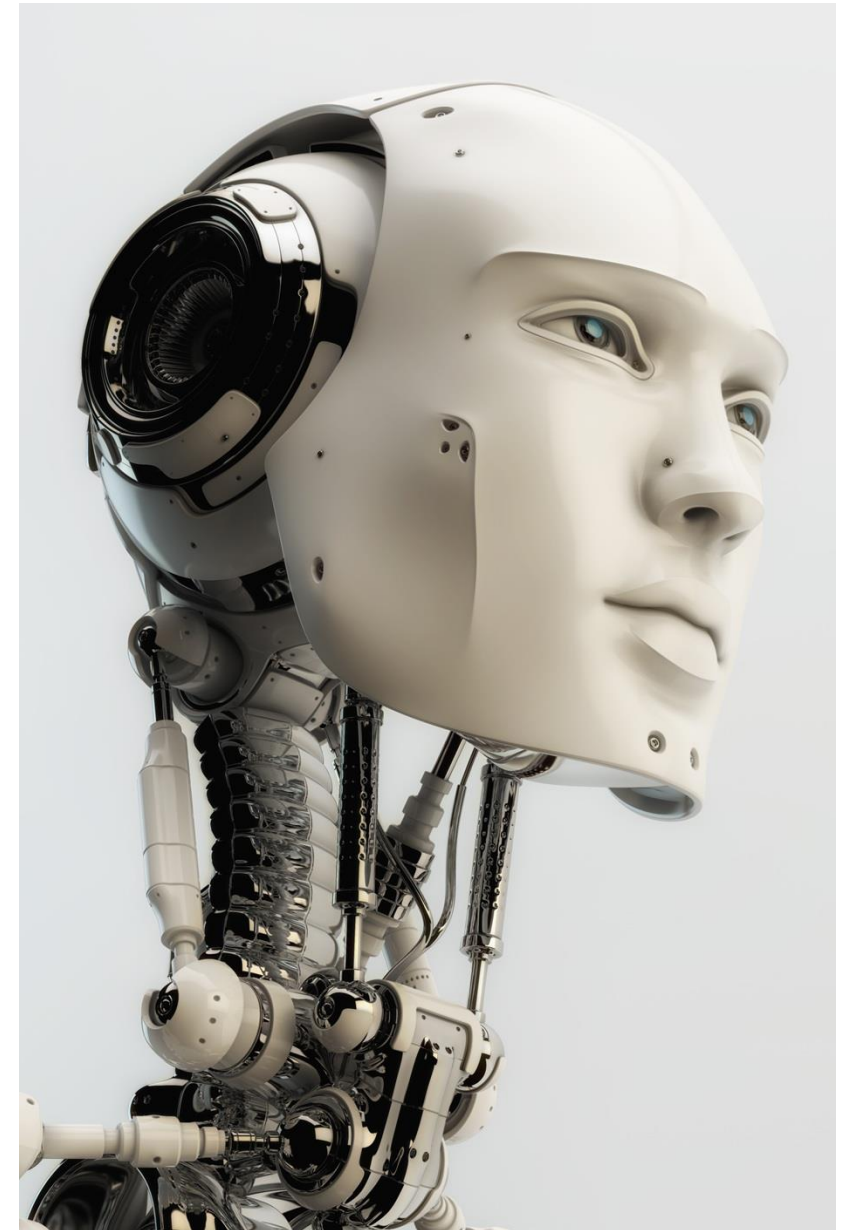
Agents...

- perform tasks
- are applications (deterministic)
- use LLMs (indeterministic)
- have a feedback loop
- have a memory

Agents also...

- are so supportive to get „social engineered“
- use LLMs to find solutions besides the defined path
- use every credential and authorization they find to perform the task

What do we do?



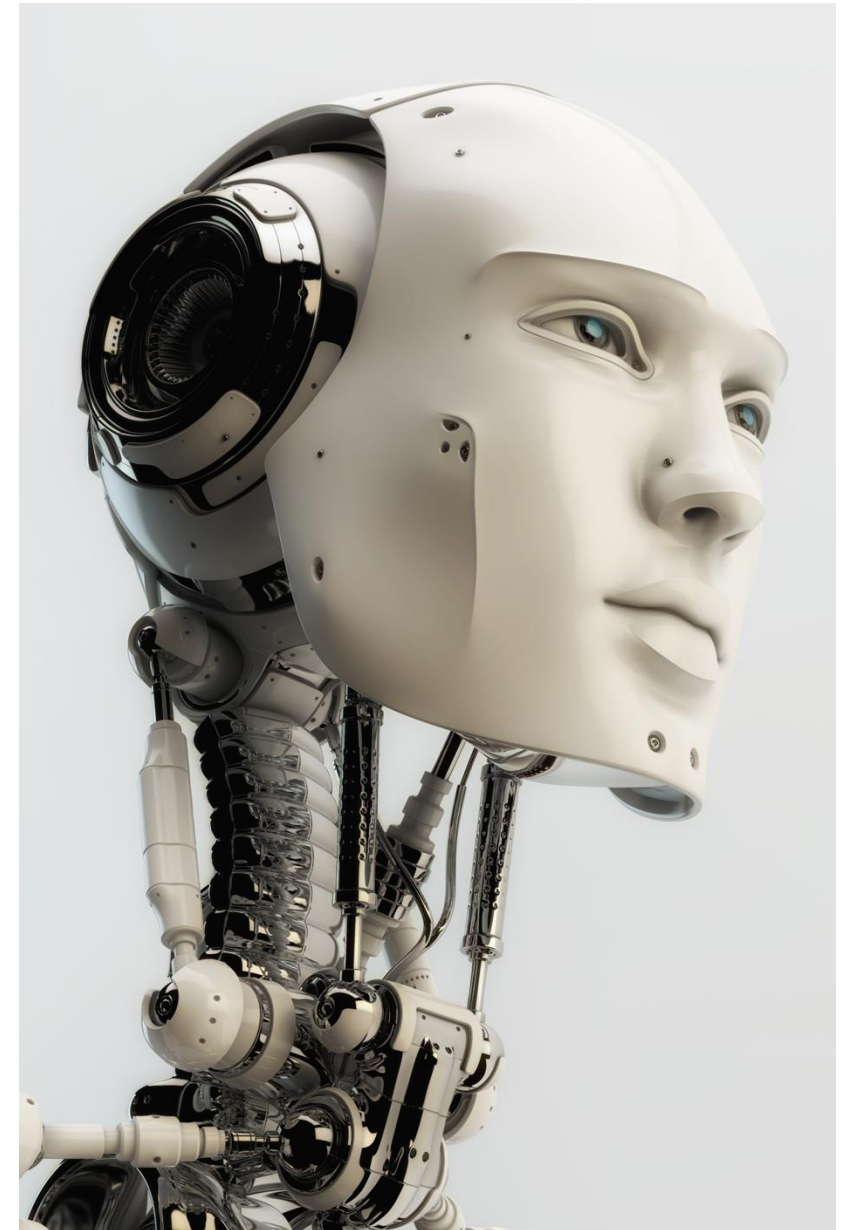
Agent Identity

Main scenarios

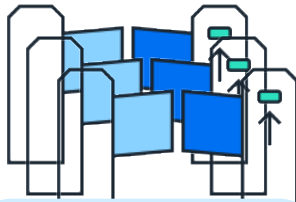
- Agent identity acts in the name of the human identity
- Agent identity acts on its own

Artifacts in SAP Cloud Identity Services

- Application with trust to SAP Agent Gateway
- Agent user with a (global user) ID
- Policy- & role-assignments



Business AI Platform – Authorization checks

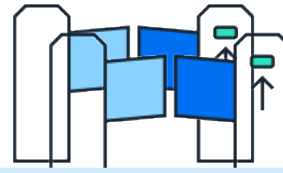


1/3 Agent-Access

WHAT: Check if the Human-Identity or Agent-Identity is allowed to use the agent.

WHERE: SAP Business AI Platform (SAP Agent Gateway)

HOW: Token-check about policy-assignment in SAP Cloud Identity



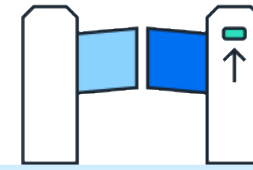
2/3 Scoped-Authorizations

WHAT: Functional policy enforcement when an agent calls a tool/API/MCP.

Scoped authorization approach to intersect Agent-Identity- with Human-Identity-access

WHERE: SAP Business AI Platform (SAP Agent Gateway)

HOW: SAP Cloud Identity Services intersect "scoped authZ" into the token



3/3 Application-Authorizations

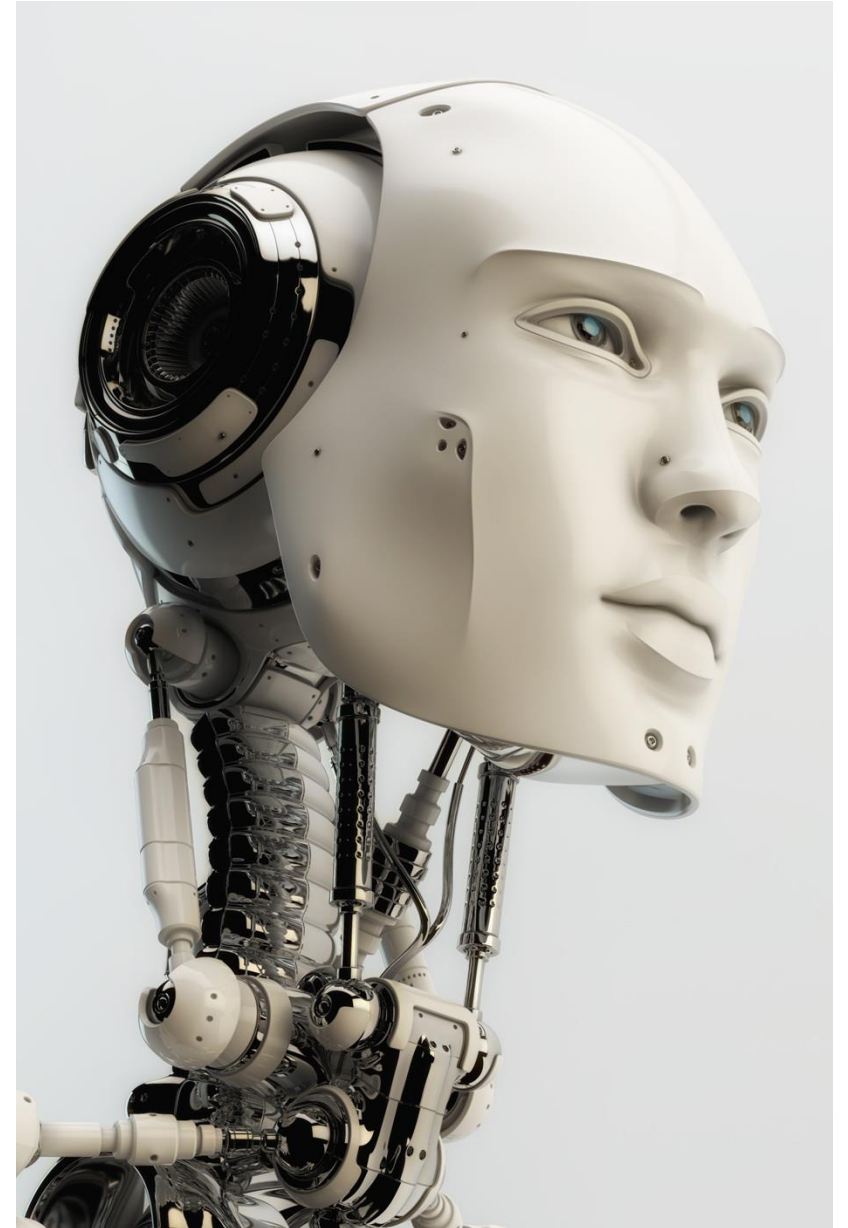
WHAT: Detailed authorization check including attribute restrictions in the SAP application based on the application-specific authorizations.

WHERE: SAP application

HOW: Authorization-Check with application engine

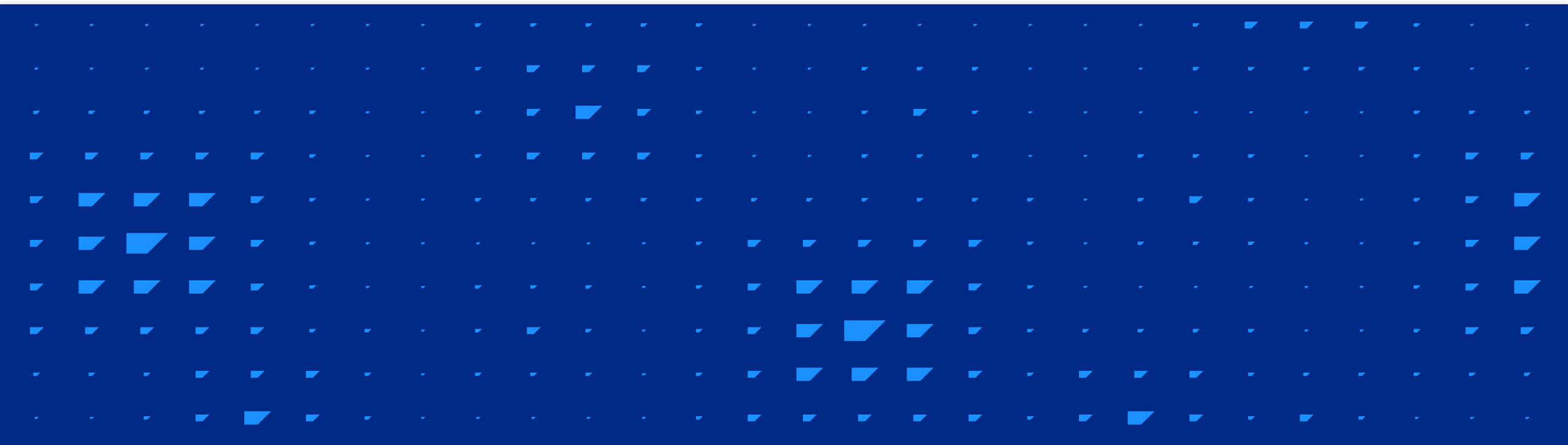
Agent Governance

- SAP AI Agent Hub
 - Gives the insights into the landscape
- SAP Agent Gateway
 - Encapsulates the agent communication
- SAP Cloud Identity Services
 - Holds the **Agent Identity**
 - Offers the policy management
 - Issues tokens to agents



SAP Managed Scenarios

Changes in the shared responsibility model

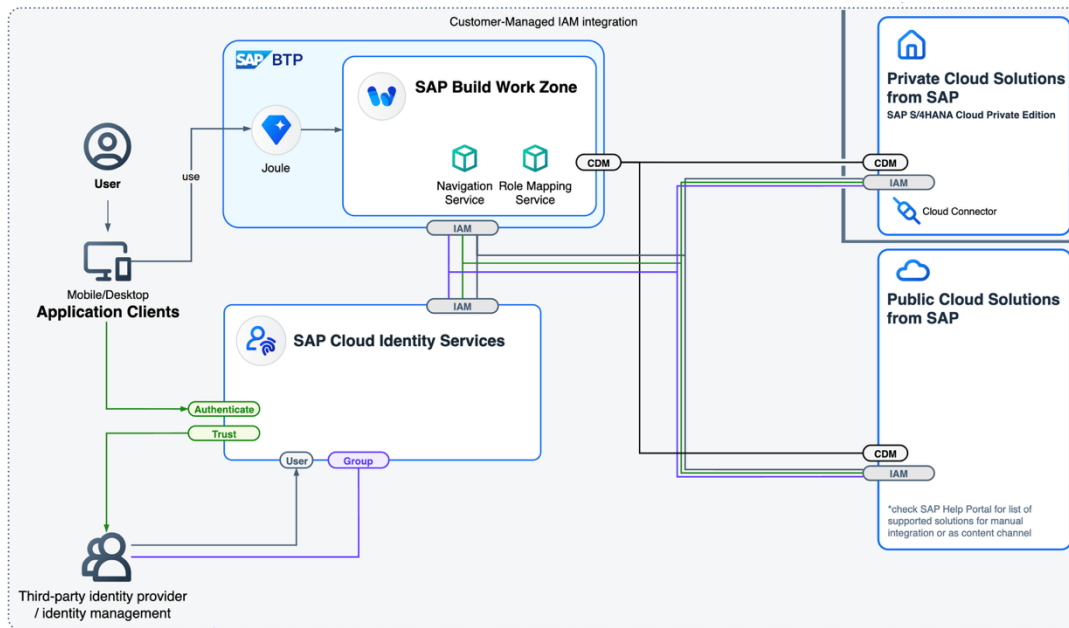


(SAP-managed) Joule

Customer-managed Joule

From Customer configures every bit and piece of the tenant and integration lifecycle.

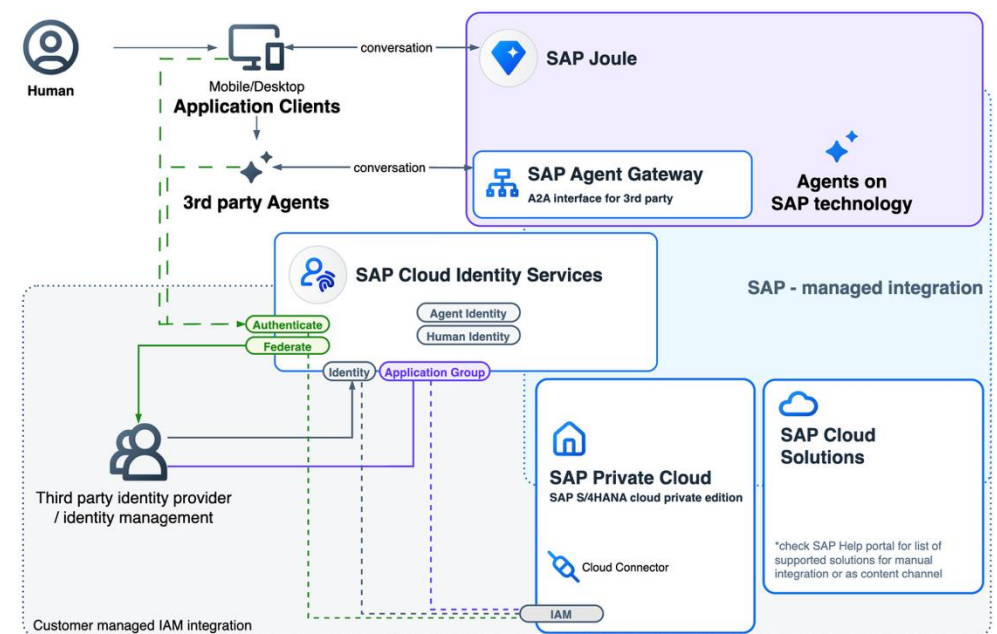
High effort for customers & SAP - slow project



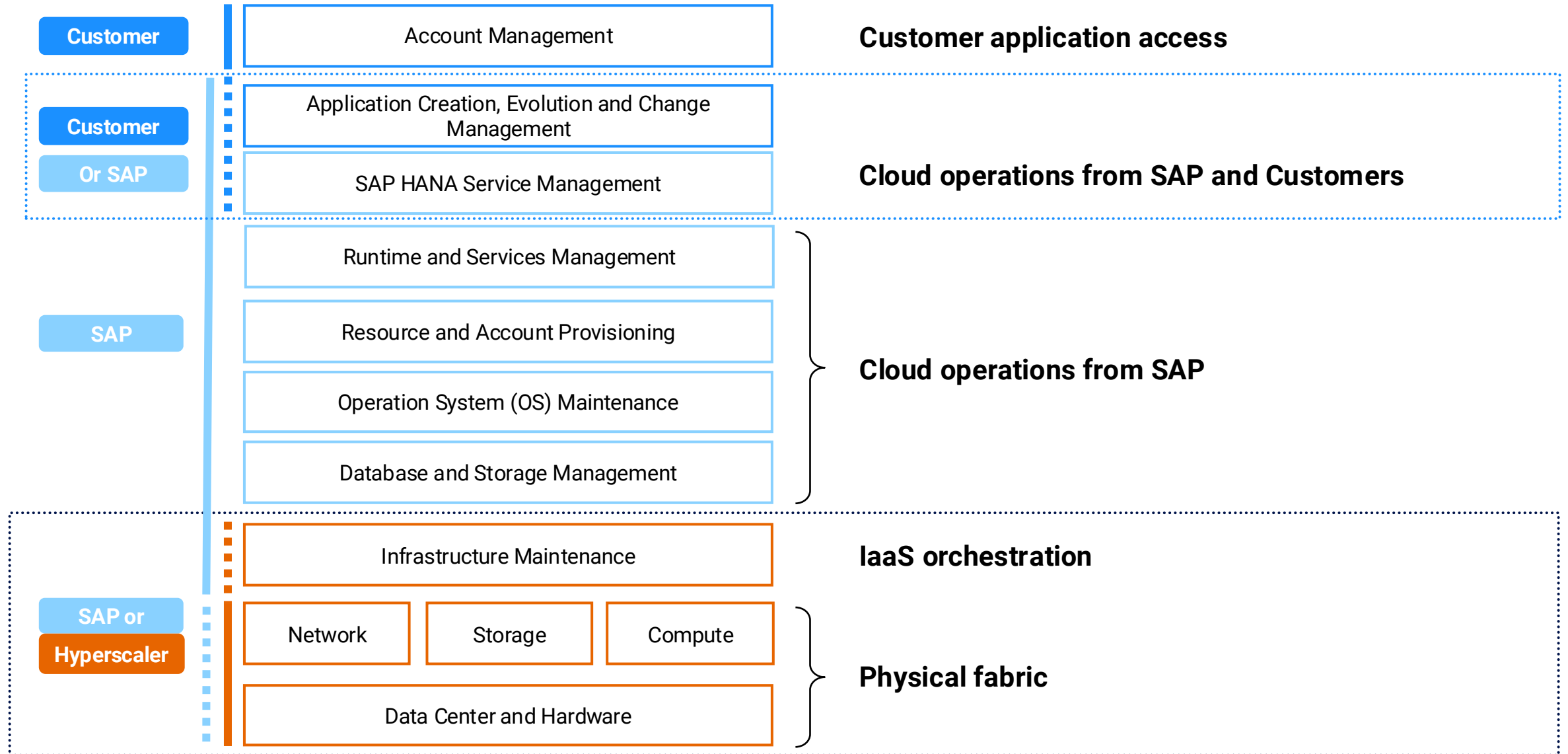
SAP-managed Joule

To Customer activates Joule in SAP4ME, uses Cloud Identity Services. SAP manages the tenant & integration lifecycle.

Activate Joule once, consume it in SAP applications

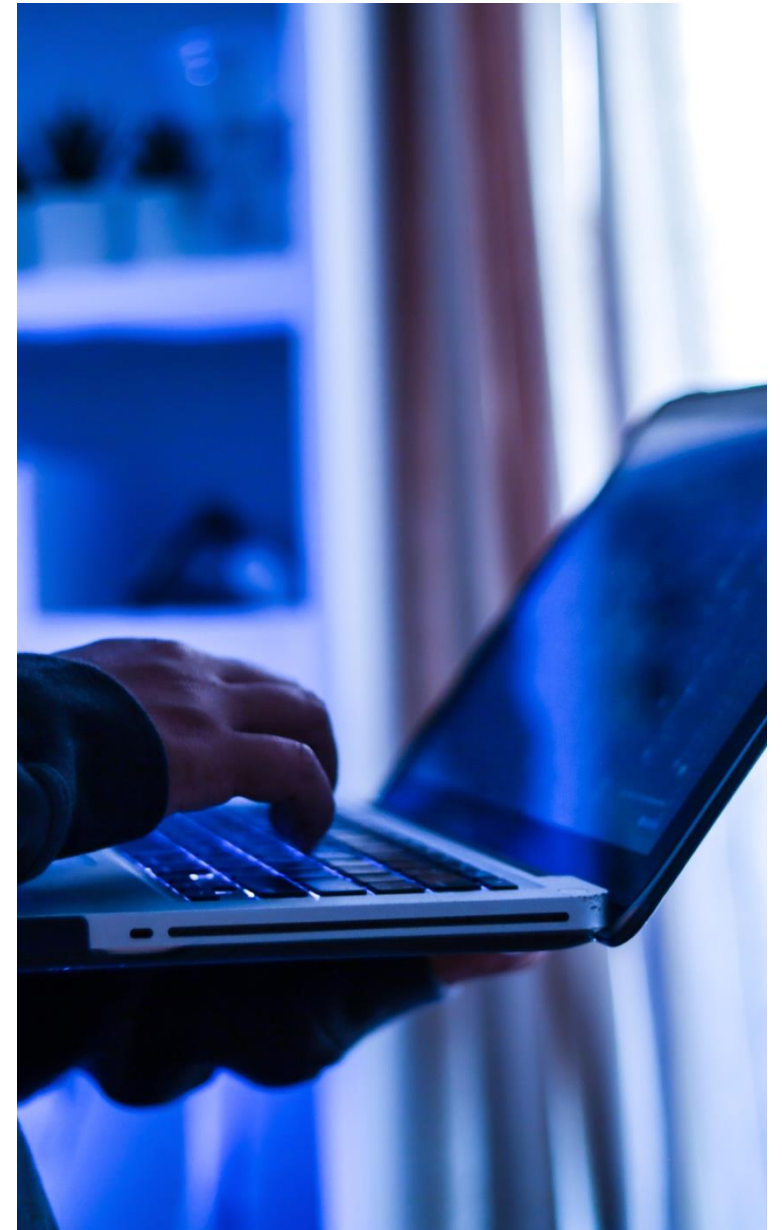


SAP BTP Shared Responsibility Model



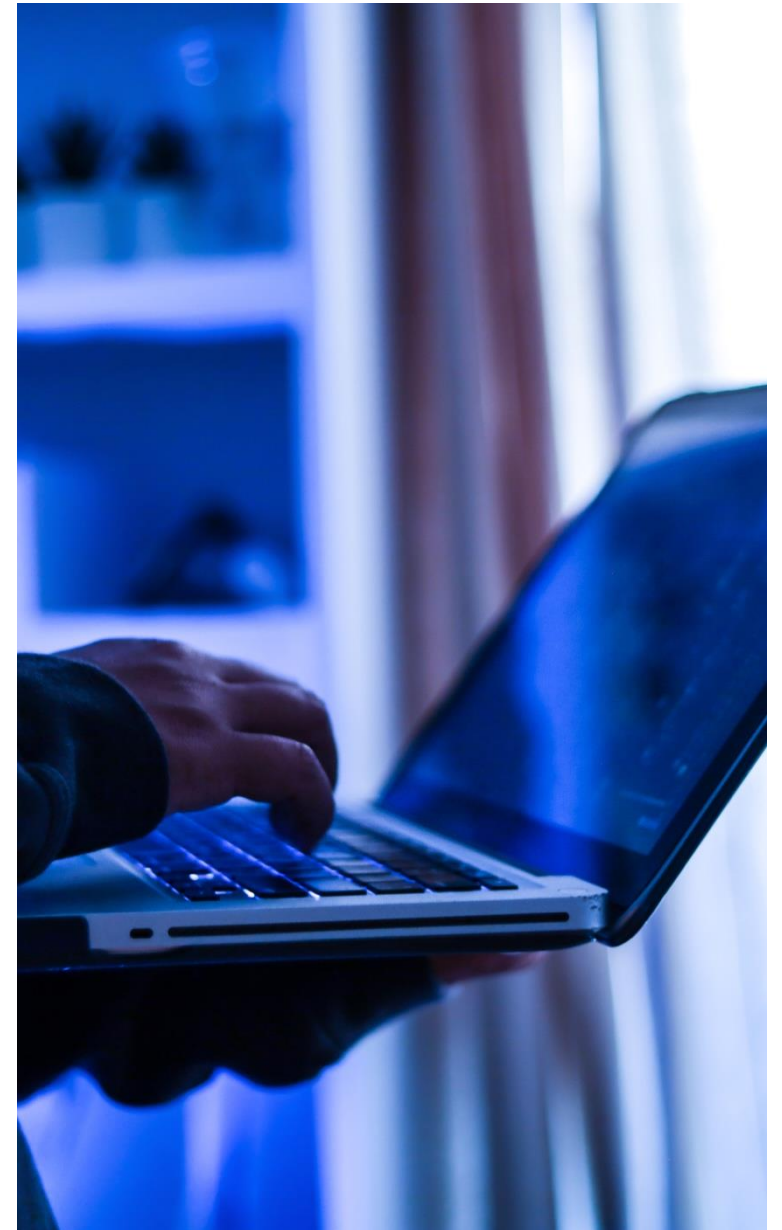
SAP-managed

- Your business decisions what to integrate
- SAP4ME management UI
 - Tenant / Solution activation
 - Integration selection
- Technical SAP2SAP integration
- Shared responsibility regarding monitoring & operations



SAP managed Suite applications aspects

- 01 Initial provisioning of Suite applications
- 02 Configuration of Authenticating Identity Provider
- 03 Authorization management
- 04 Identity lifecycle management



Initial Provisioning of Suite Applications

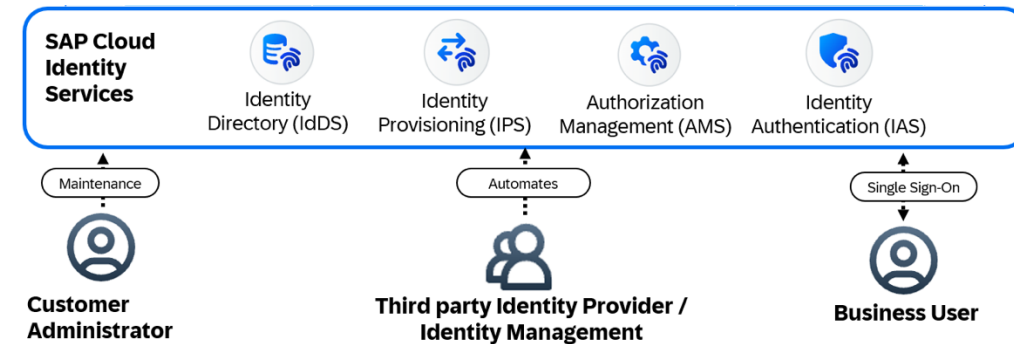
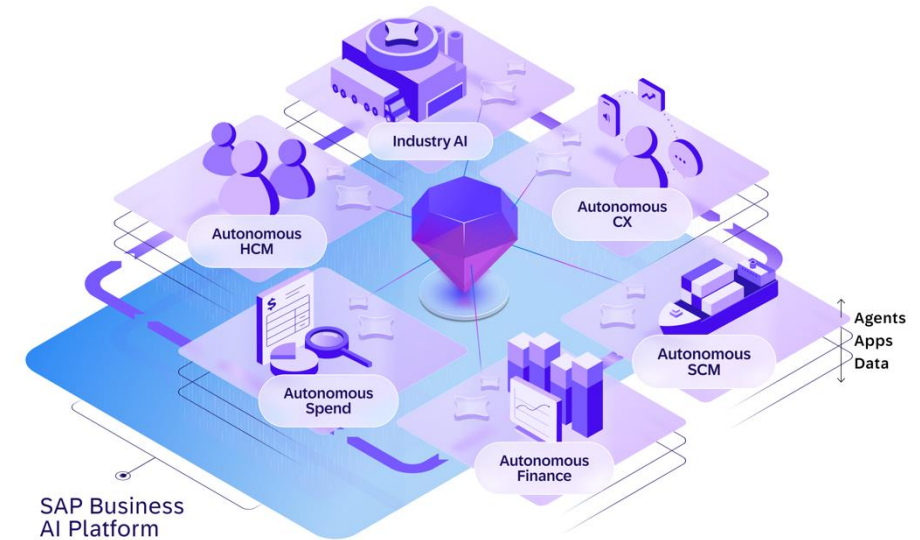
Administrator logs on to SAP 4 Me and triggers provisioning of the Suite applications:

- initial application roles are created in the applications
- **SAP-managed** IAM integration set-up established

IAS set-up as the authenticating identity provider for the applications

SAP-managed IPS jobs for user and user role assignments are scheduled

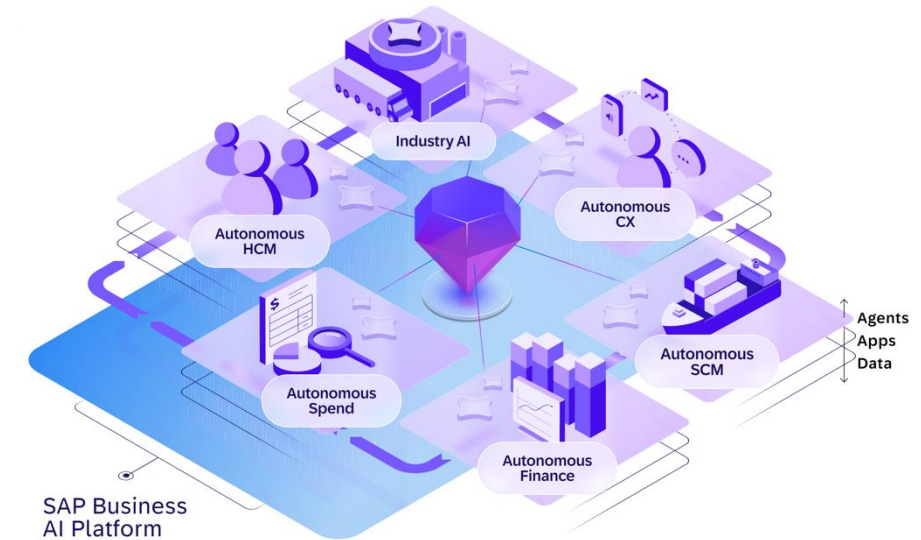
Administrator can add additional users required for initial system setup in SCl and maintains user-role assignments based on published (initial) application roles from the applications



Identity Lifecycle Management

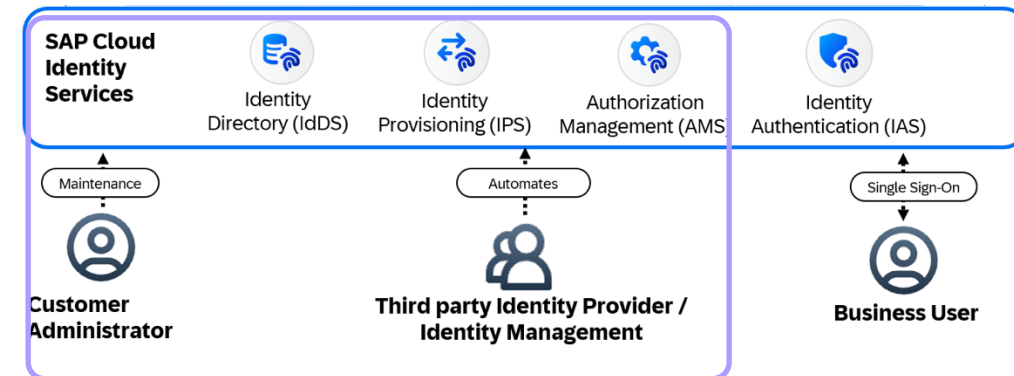
With a (third-party) IDM tool

- HR administrator creates employee in SAP SFSF
- Corresponding user is created in third-party IDM
- Admin assigns roles to the user in third-party IDM
- User and role assignment information are replicated to SCI (customer managed). Replication to all connected SAP applications (SAP managed)



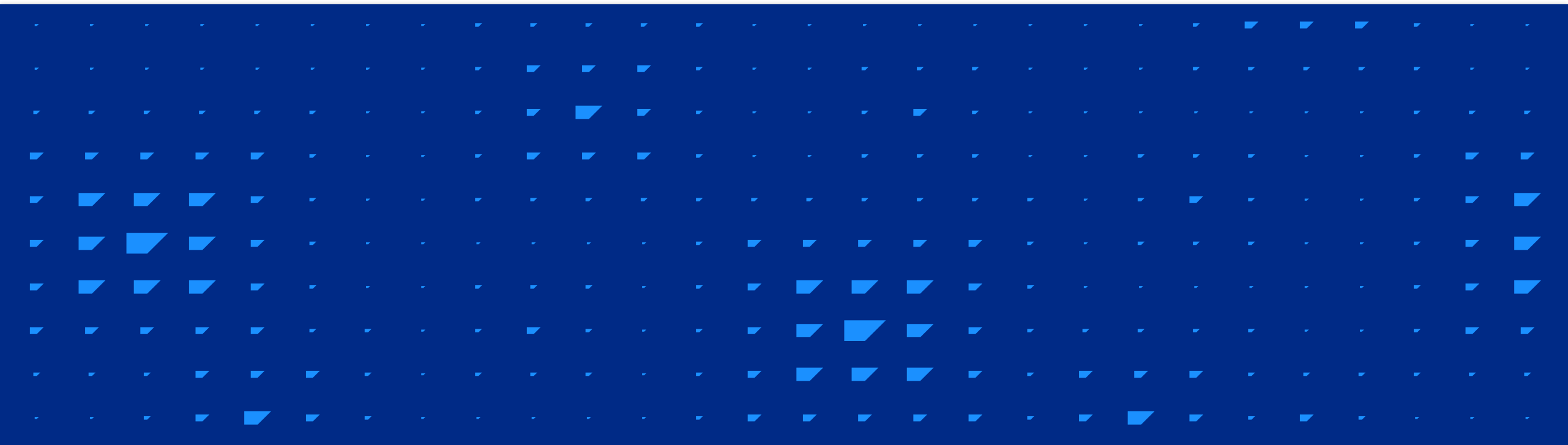
Without a (third-party) IDM tool

- HR administrator creates employee in SAP SFSF
- SFSF integrates directly with SCI for user creation
- Admin assigns roles to the user in SCI –replication from SCI to all connected SAP applications (SAP-managed)



Roadmap SAP Cloud Identity Services

Innovation Overview



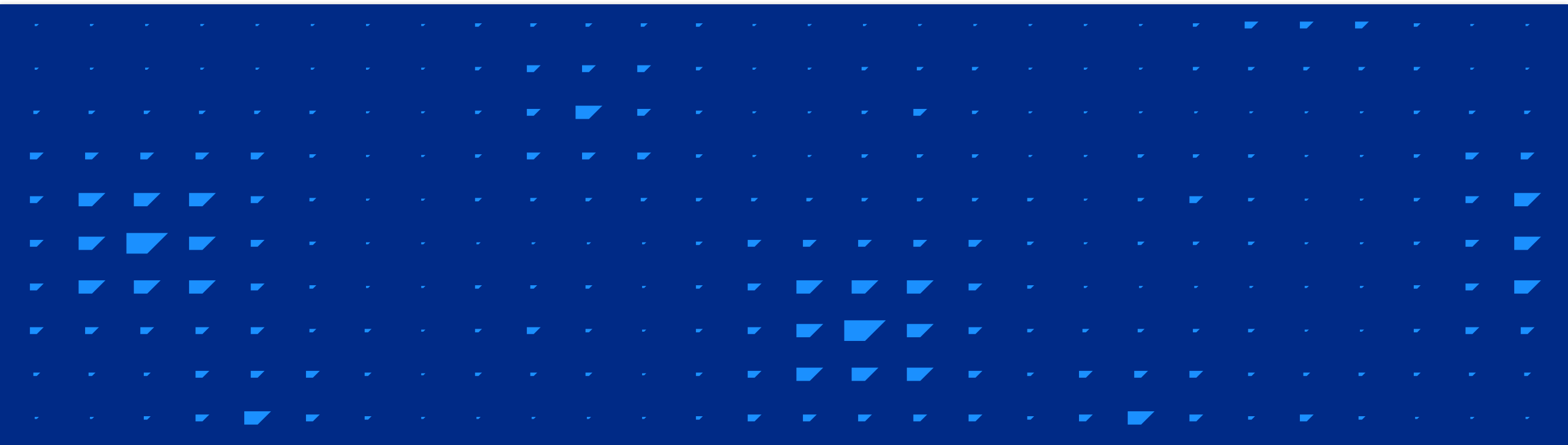
Roadmap SAP Cloud Identity Services - Planned Innovation Overview

SAP Cloud Identity Services - [product road map](#)

Short term	Mid-term	Long-term
Agentic AI scenarios	Extending the Identity Directory service with support for composite roles	Identity Directory to trigger notifications for changes
SAP managed scenarios	Increased flexibility for on-premises connectivity	Extended user search capabilities
Support for technical users	Extended audit logs	User provisioning status in Identity Directory
Manage 'SP users' with SCIM API	Manage Tenant Configuration policy	Harmonized user experience across services
Allow custom schema attribute as subject name identifier	Rotation of app credentials by apps	
	Extending CALM integration w X.509 validity	
	New landscape for Qatar	

Summary

Key Takeaways - Q&A



Key Takeaways

01

SAP Cloud Identity Services will hold the **Agent Identity**. It will offer policy management and token issuing for agents.

02

SAP-managed IAM setups ensure a fast and secure path towards realizing the vision of an Autonomous Enterprise

03

SAP Cloud Identity Services is the default IAM integration component for **SAP-managed Joule**



Your perspective matters

Join the conversation

You ask. We answer.



Marko Sommer
Product Manager



Michael Friedrich
Product Manager

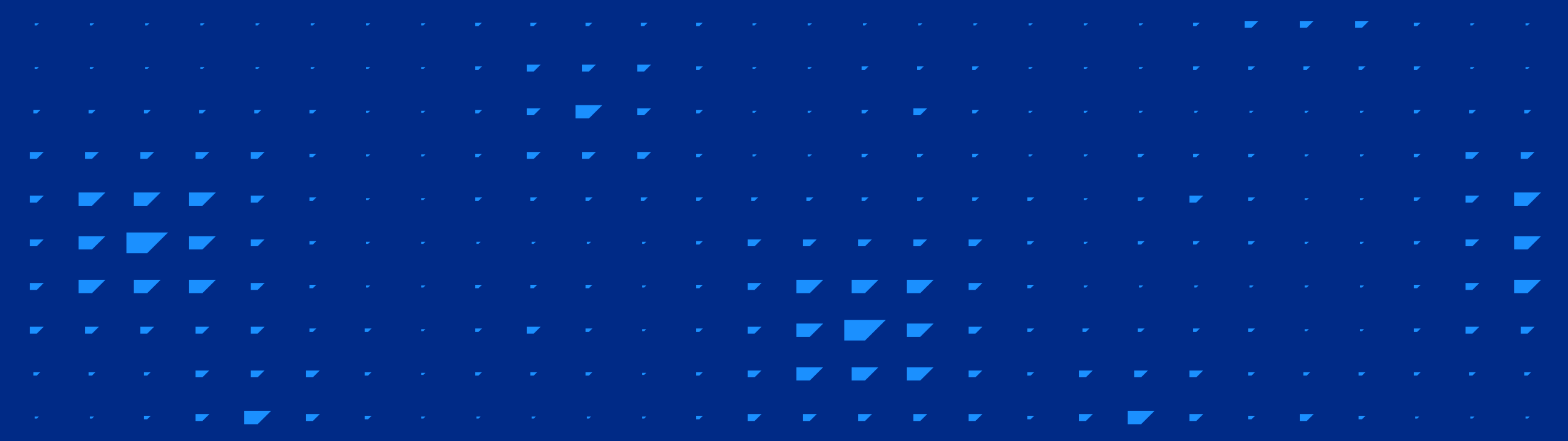
Upcoming deep-dives in our series

Your Cloud Future Starts Here: Core Capabilities of SAP BTP Explained

[Find more information here.](#)

- Take Control of Your Cloud Deliveries with SAP Cloud ALM and SAP Cloud Transport Management
- SAP Cloud ALM for SAP BTP Operations: Insights and Strategy Update
- From AI-Driven Insights to Automated Operations with SAP Automation Pilot and SAP Cloud ALM
- SAP BTP: Security overview and best practices for secure development
- SAP Cloud Identity Services: Overview, Strategy and Roadmap
- Secure, Compliant, and AI-Ready: The Future of Governance and Compliance on SAP BTP
- Doing SAP BTP Platform Automation like a boss ... with Terraform and btp CLI
- Unified, virtually transparent, enterprise ready technical connectivity on SAP BTP
- SAP BTP Cloud Foundry and Kyma: Runtimes for a complete developer experience
- How to consume SAP BTP downtime notification events from SAP Cloud ALM + SAP for Me





Thank you.