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Community TechTalks



July 23, 2025

Apigee AI Portals for Model, Tool & Agent Self-Service

https://goo.gle/Recordings

Apigee

Housekeeping Notes

- 🎥 This session is being recorded so you can revisit it on demand later.
- 🔇 Please remain muted during the presentation
- 💬 Feel free to share questions anytime through the chat.
- 🎤 We'll open the floor for discussion and live questions at the end of the session.
- 👍 Use reactions and emojis to engage throughout the presentation.
- 🤝 Please help us keep the space respectful and welcoming for everyone.

Speaker



Tyler Ayers

Principal Architect

Postman Report

State of APIs
2025 Summary

API Portals & Discoverability

- **INCREASING INTEGRATION:** Portals evolve from static docs to dynamic API hubs (documentation, mocking, testing).
- **DISCOVERABILITY AS PRIORITY:** Focus on making APIs easy to find internally and externally.

THE SHIFT: Human Readable -> Machine Discoverable

PREVIOUS FOCUS:
Human Readable Docs

- Manual indexing
- Swagger/OpenAPI for humans
- focus on developer experience

→

EVOLVING NEED:
Machine Discoverability

- Programmatic indexing, machine-readable formats (MCP, A2A), focus on automated API consumers

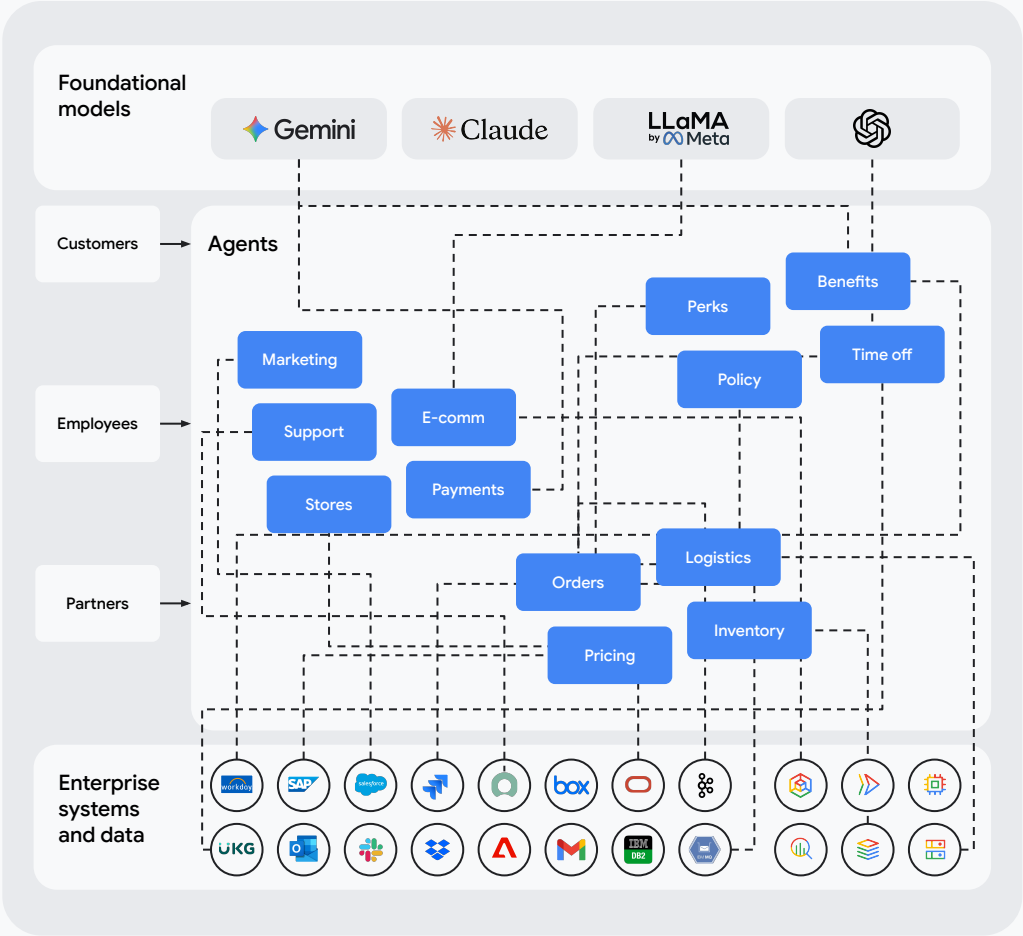
The challenge

Agent & AI sprawl

Fragmented landscape

Expanding surface of unmanaged tools and runtimes

Difficult to manage without growing bespoke infrastructure



The challenge

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Fragmented landscape

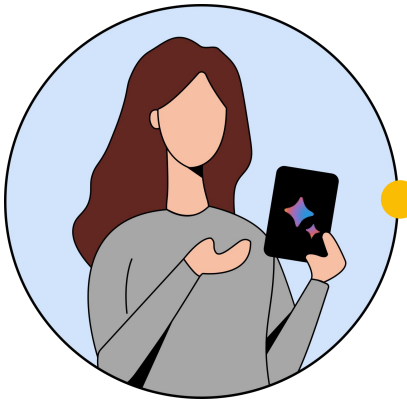
Expanding surface of unmanaged models, tools and runtimes

Difficult to manage without growing bespoke infrastructure



Apigee AI Gateway

For universal model, tool & agent governance



Users & Agentic Experiences

Agents (ADK, etc...)

CLIs

UIs / Apps / IDEs

AI Gateway

Models

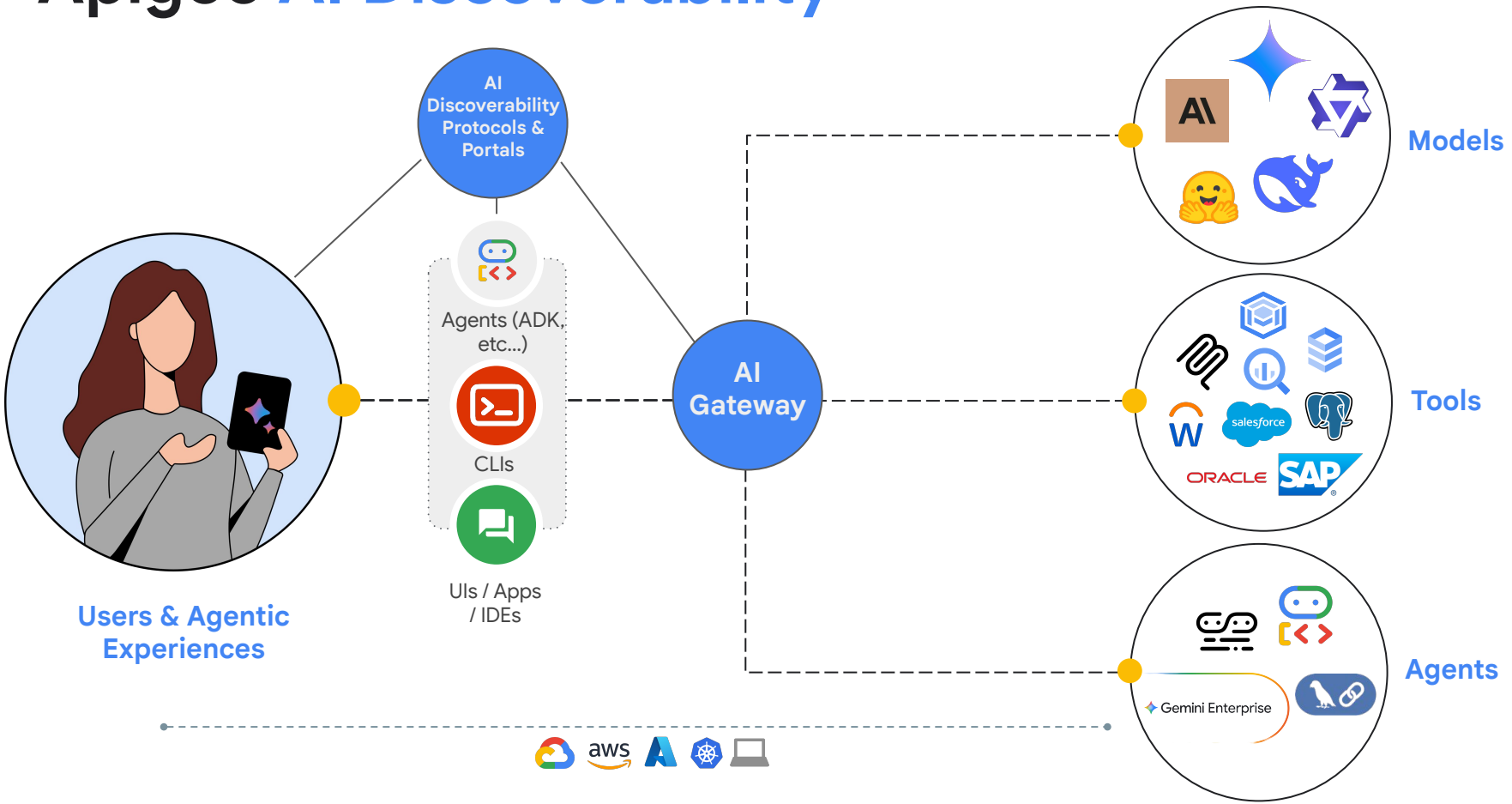
Tools

Agents

Gemini Enterprise

aws

Apigee AI Discoverability



This are changing fast in the agentic discovery world...

Announcing the Agentic Resource Discovery specification

JUNE 17, 2026

Junjie Bu
Senior Staff Software Engineer

Srinivas Krishnan
Distinguished Software Engineer

Share



https://developers.googleblog.com/announcing-the-agentic-resource-discovery-specification/
https://github.com/ards-project/ard-spec

Agentic Resource Discovery (ARD) Format

A standardized metadata contract enabling autonomous agents to discover, route, and consume MCP servers

The Discovery Artifact

ARD abstracts integration complexity into a machine-readable JSON schema hosted at a well-known URL on the host platform, serving as a unified integration contract.

Key Discovery Capabilities:

- **Unified Registry Lookup:** Eliminates manual point-to-point tool configurations in agent codebases.
- **Autonomous Negotiation:** Agents query the catalog dynamically, matching required capabilities against exposed JSON manifests.
- **Secure Execution Perimeters:** Directly links discovery metadata to authorization protocols like secure SPIFFE identities.

Specification Structure

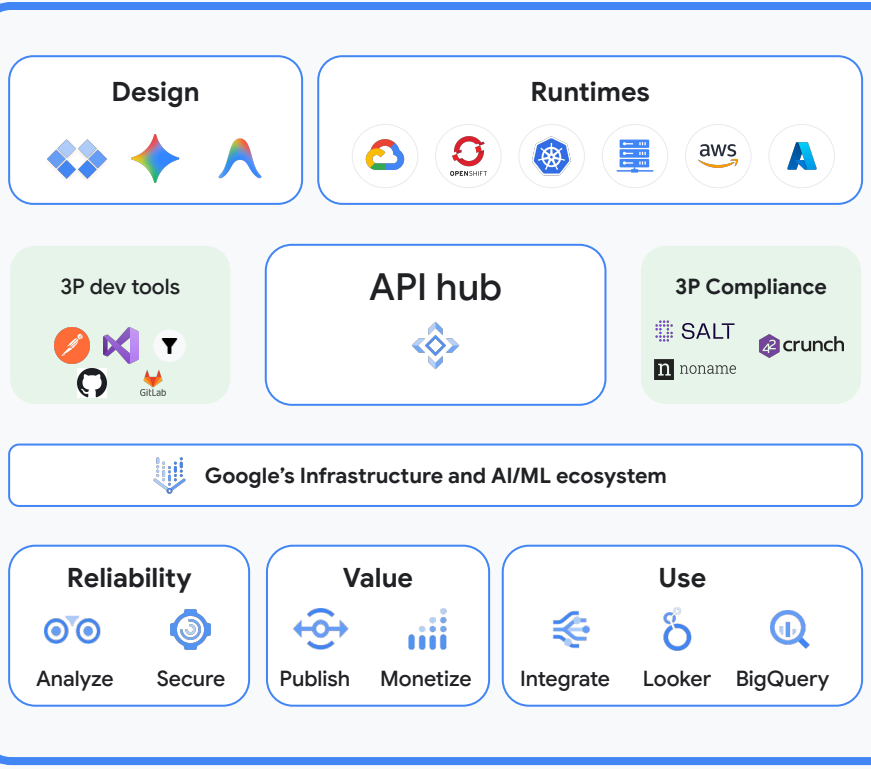
JSON Schema

Standardized schema mapping target MCP server properties:

```
{
// Standard metadata for discovery
"agent_id": "mcp-sql-connector",
"product_type": "MCP_SERVER",
"execution_uri": "https://api.internal/mcp",
"approved_tools": ["execute-query"],
"pricing_tier": "Standard_Tier",
"metering_type": "TOOL_INVOCATION"
}
```

Apigee

Easy to get to your first API call, equally reliable for your billionth



For your developers on any infrastructure

Build APIs and AI tools with natural language or developer friendly tools. Enjoy the freedom to deploy on your environment of choice

For any API landscape and complexity

Centralize your APIs and MCPs into a universal hub – irrespective of where they are built. Organize and manage their lifecycle

At any scale or against any attack

Leverage Google's infra to gain reliable performance and to comprehensively protect your APIs and AI resources

For any use case and business model

Enable easy access to any data or service – from LLMs to a legacy backend – in your apps, products, or experiences

NEW SAMPLE SOLUTION

Apigee AI Portals Solution

An open-source, headless developer portal designed for universal AI governance, cost tracking, and self-service access control. Built on robust GCP infrastructure.

github.com/gcp-samples/ai-portals-solution

01 Ready

Headless Architecture

No database required. All data persists natively in Google Identity Platform, Firebase, and Apigee to simplify global compliance.

02 In Progress

AI Service Catalog

Register, discover, and test diverse endpoints including REST, MCP, and A2A services in a unified portal catalog with Eventarc real-time sync.

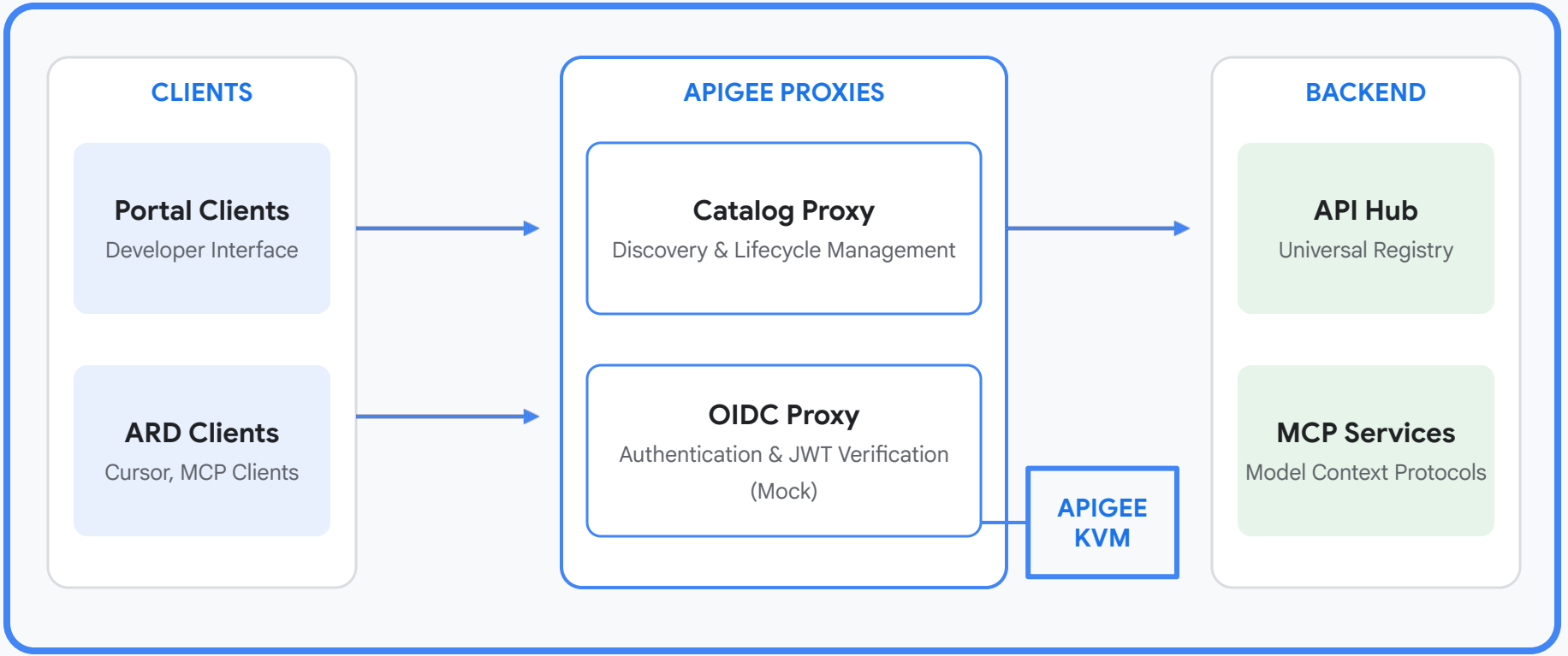
03 Ready

Token Analytics

Track LLM token consumption as the primary pricing unit. Includes client-side dashboards built with Gemini Flash 3.5.

Apigee Proxies: Serverless Proxy Integration

Connect ARD clients and developer portals to API Hub and backend Model Context Protocol (MCP) services securely.



TESTING & OIDC INTEGRATION

Mock OIDC & OAuth Server as Apigee Proxy

Accelerate agentic development by simulating complete Identity Provider (IdP) flows natively on the gateway. Verify token exchanges and downscoping without external dependencies.

01 / Local OIDC Mocking

Simulate a full OpenID Connect Identity Provider. Generate valid, signed mock JWTs mimicking corporate providers.

Key Capabilities:

- Local discovery endpoints
- Mock JWKS public key hosting
- Custom claims configuration

02 / OAuth Token Exchange

Validate RFC 8693 token exchange and downscoping logic natively before integrating with production servers.

Verifiable Flows:

- Opaque-to-JWT conversion
- Scope narrowing simulation
- Audience restriction (aud)

03 / Portal & MCP Sandbox

Provide a zero-friction security sandbox for testing custom AI developer portals and Model Context Protocol servers.

Deployment Benefits:

- Offline sandbox execution
- No external network routes
- Instant developer onboarding



DEMO

Q&A

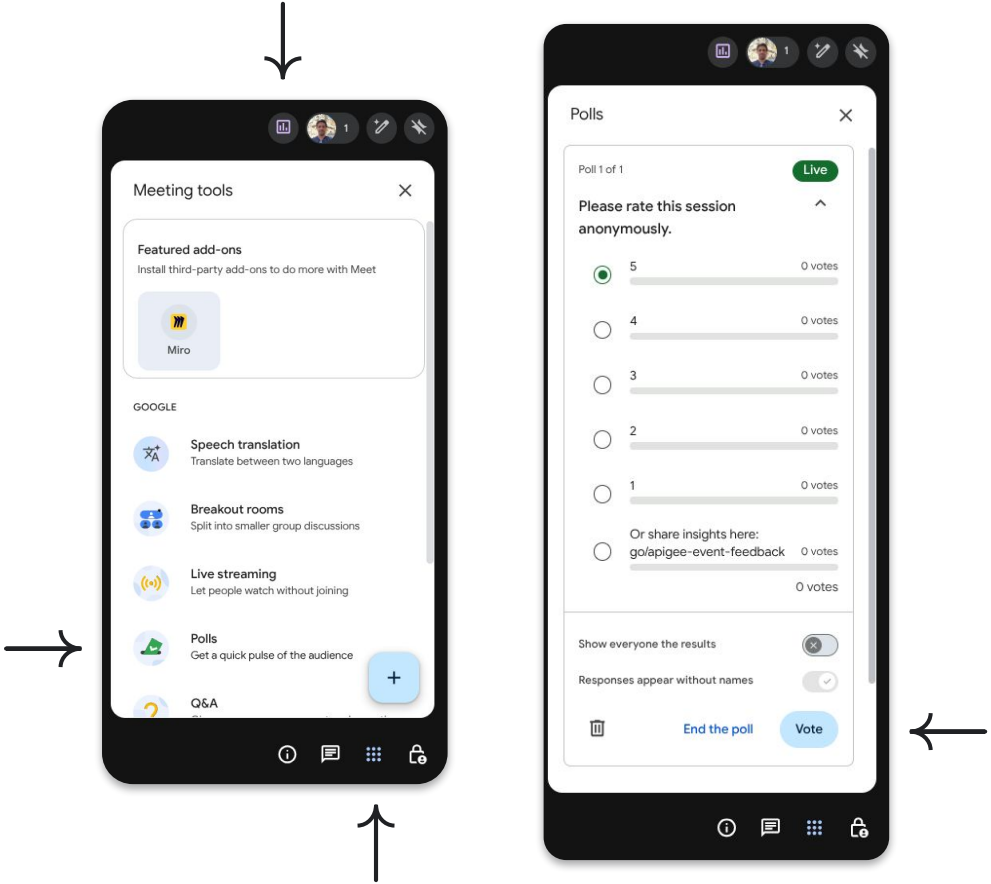


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Catch up!

New Community Content

- Apigee AI Gateway Introduction
- Apigee AI Tutorial: Getting Started with LLM Routing
- Apigee API Hub to MCP Registry Tutorial

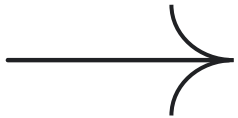
Upcoming Events

- **July 30** | Políticas de Segurança no Apigee: como proteger API's de ataques indesejados 🇧🇷🇵🇹
- **August 13** | Secure Agent MCP Tool Governance using Apigee
- **Sept 10** | Apigee Community TechTalk en français avec Christophe Lalevée

Google Cloud

Community





Thank You

Apigee