

Dynamic Authorization Service™ for Microservices



Authorize digital interactions, at scale, extend identity security enterprise-wide

Dynamic Authorization for Microservices

Larger organizations have hundreds if not thousands of microservices that interact with each other through API calls. The sheer number and complexity of calls between microservices (East-West traffic) can make authorization a security challenge.

Unlike North-South traffic where a single API Gateway is typically secured, requests between microservices must be addressed at scale. An efficient and proactive approach to securing microservices decouples the authorization policy lifecycle management.

The **PlainID Dynamic Authorization Service™** provides centralized management with distributed enforcement. Policies are centrally defined outside of the service, while enforcement occurs locally at the service level. **PlainID Authorizers™** provide out-of-the-box integration with industry-leading service mesh solutions to simplify authorization across the enterprise.

Features



BUSINESS-DRIVEN API POLICY MANAGEMENT
Leverage a graphical management console to express policies in accessible, business-oriented language.



IDENTITY-AWARE ACCESS CONTROL
Apply identity contextual data to authorization enforcement where decisions are based on the true identity rather than highly privileged system accounts.



DYNAMIC & FINE-GRAINED AUTHORIZATION
Calculate policy-defined API access decisions in real-time for continuous permit/deny enforcement.

Business Impact



SUPPORT MODERN ARCHITECTURE

Scale agile processes to meet your business strategy and user experience requirement.



MINIMIZE RISK WITH IDENTITY-FIRST SECURITY

Address Zero Trust and continuous authorization in real-time.



UNIFY MICROSERVICES ACCESS POLICIES

Secure microservices through a single pane of glass with a central management platform



ACCELERATE TIME TO MARKET

A user-friendly GUI saves your developers time and resources.



PERMIT/ DENY ENFORCEMENT
Unify authorization enforcement and meet access policy requirements at the API and microservice level.



API DISCOVERY FOR SWAGGER AND OPEN API
Streamline API access policy creation and enable API discovery for Swagger and OpenAPI.



TOKEN EXCHANGE AND TOKEN ENRICHMENT
Enrich access token by injecting authorization claims into the request header, or mint a new access token containing only relevant information using PlainID's Authorization Server.

Key Components of the PlainID Dynamic Authorization Service

POLICY DECISION POINT (PDP)

Calculates real-time access decisions based on PAP-defined policies.

POLICY INFORMATION POINT (PIP)

Collects information on users and assets to support fine-grained decisions.

POLICY ADMINISTRATION POINT (PAP)

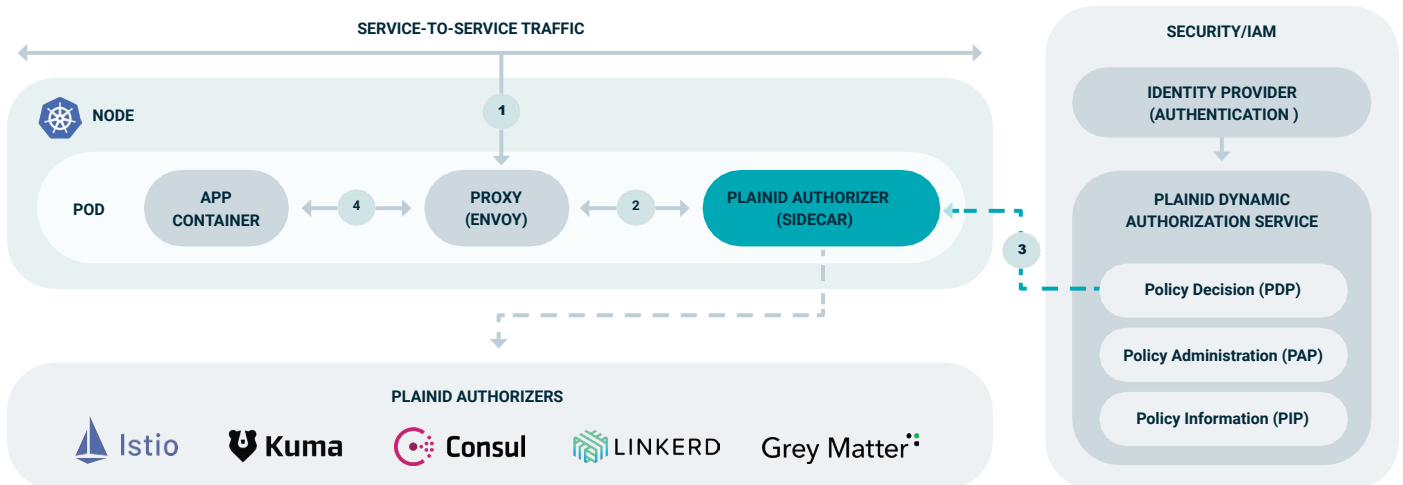
Creates and manages the full policy lifecycle. The PAP interface is purpose-built for both technical and business-oriented users.

PLAINID AUTHORIZERS™

Ready-to-use integrations to enforce the access decisions for industry leading API Gateway solutions. Authorizers are also available for securing microservices, data, and applications.

Solution Architecture

- 1 The client sends the access/ID token in the request header.
- 2 The request is intercepted by the envoy proxy and passed to the PlainID Authorizer (sidecar) that is automatically injected into the pods as a container.
- 3 The sidecar can either permit/deny the transaction based on the defined policies OR permit the transaction with token exchange or token enrichment for additional identity-aware context and policy decisions
- 4 If the authorization decision is permit, the envoy proxy passes the request to the service container. If the authorization decision is deny, the request never reaches the actual service container and a 403 response is returned immediately.



Visit PlainID.com for the full list of authorizers.

ABOUT PLAINID

PlainID is the world's leading provider of enterprise Authorization, helping enterprises address the complex challenges of Identity Security. The PlainID Platform allows you to discover, manage, and authorize access control policies for enterprise applications and data. Our solution is architected to protect against identity-centric security threats powered by Policy-Based Access Control (PBAC). Visit PlainID.com for more information.