

webMethods AppMesh

Adding application context to
your microservices

Fact sheet

Get more visibility, agility, and control over complex microservices-based apps by layering in the webMethods AppMesh. With the AppMesh, built on the industry-leading webMethods API Management Platform, you can understand app usage, apply policies without redeploying, and implement granular access at the application level. Configure, don't code—with the webMethods AppMesh.

AppMesh works for the Business

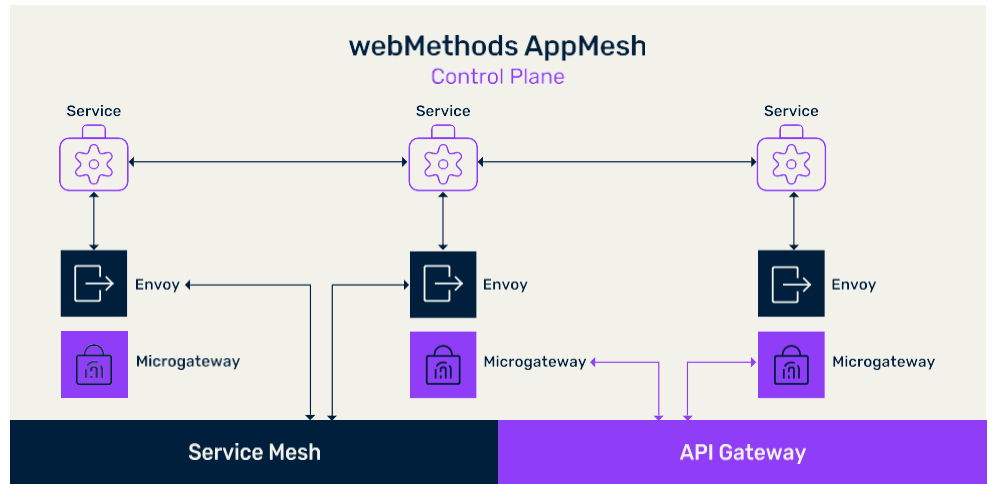
Business are adopting microservices for agility and scalability. Along with distributed microservices architectures come the challenges of service discovery, connectivity, security, and fault tolerance in the cloud. The service mesh was created to address these network-level concerns. But the fluid nature of business requirements for the application are more difficult to handle. webMethods AppMesh is designed to plug into Service Mesh and add a layer of microgateways in a unified control plane to understand, customize, and control your app. You'll be able to:

- Manage app adoption with lightweight, scoped visualization and metrics of app consumption
- Enhance access controls for user-level authorization and authentication
- Route users to the appropriate service using content and context-based policies
- Add and subtract services in the mesh as part of the app
- Enable API reuse through automatically exposed API descriptors

Benefits of AppMesh

Deep visibility into how the app is running, who's using it, and what they're doing

- Granular app access and throttling
- Create customized responses for end users based on consumer characteristics
- Add new services and capabilities to the app without changing a line of code
- Automatically share services no matter what the underlying technology, so you don't have silos of data in the cloud
- Easily provision and scale the AppMesh across a microservices architecture
- Plug into service meshes like Istio easily to gain network-level service management
- Centralize app governance in your landscape



webMethods AppMesh Control Plane

Features

Custom Access Protection

Protect microservices and reduce risk of exposure with advanced user identification and security policies. Use web-friendly authentication and authorization technologies like JSON web tokens, SAML, API keys, OAuth or Open ID, or create data masking policies for sensitive user PII data.

Sophisticated Policy-Based Control

Understand what your users are doing and control how your app is responding with a range of policies that can be applied at runtime. For each service invocation, you can define:

- Policies that control routing based on the content of the message or the context
- Policies that do custom logging and auditing
- Policies that use inbound information to populate specific parameters to modify the request
- Policies that perform conditional error handling for graceful failover
- And much more!

Traffic Monitoring and Control

Throttle traffic with policies to manage the load on provider services. Apply limits to service invocations during a specific time interval for identified clients. Log all traffic requests and responses for analysis.

Plug in to the Service Mesh

AppMesh is pre-integrated with industry standard service meshes like Istio. Take advantage of all the network-level microservices management capabilities built into a service mesh and layer add in the application context by injecting AppMesh. Completely non-intrusive, it has no effect on service mesh behavior and comes in a small footprint for fast startup.

Dashboard for service visibility

Trace the path a transaction takes through your service mesh with the AppMesh dashboard, filtered to include only the services in your application. Understand how your app is being used by exploring the metrics and monitoring that's automatically captured.



Add and remove services from the AppMesh

Add new services and if desired, automatically inherit the policies assigned to all other services in your app. Bring new capabilities online with no downtime.

Automatically expose API interface

AppMesh makes an API signature available for every service in the mesh, enabling reuse across the service landscape. In addition, these APIs can now be managed and governed with an end-to-end API lifecycle management platform.

Why Software AG? We're a Leader

Software AG was ranked a Leader in API Management in the Forrester Wave™ and Gartner Magic Quadrant. [Read the reports.](#)



Take the next step

To learn more about and get started with webMethods App Mesh, visit us at www.softwareag.com/products/webmethods/webmethods-api-management/.

ABOUT SOFTWARE AG GOVERNMENT SOLUTIONS

Software AG Government Solutions is a market leader in best-in-class commercial software dedicated to serving the U.S. Public Sector and A&D supplier community. Our solutions remove the barriers of connecting data from every source – from cloud to edge – across an extended enterprise. We are recognized by Gartner and Forrester as leaders in API Management and Hybrid Integration (webMethods), Industrial IoT (IIOT) platforms (Cumulocity), and IT Portfolio Management and Enterprise Architecture (Alfabet). Widely embraced by our customers, we leverage a “Prove IT First and Prove IT Fast” approach to solving critical IT challenges. This approach has proven to minimize risks associated with IT investments while allowing us to prioritize building trusted relationships with our customers.

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