**Tetrate**

*The Service Mesh Company*

Tetrate Service Bridge, powered by Istio and Envoy, is a self-service, multi-tenant platform to weave and manage the service mesh across VMs and Kubernetes clusters, on-prem and cloud. Developers, security engineers, and operations engineers across multiple teams can safely and securely manage their services without impacting others. A rich set of ecosystem integrations will simplify adoption in enterprise environments.

**Key Contacts:**

* Currently implemented at USAF Platform One through Phase III SBIR
* NIST partnership for Next Generation Access Control (NGAC) and coauthor on NIST 800-204 series

**Company Overview**

* Tetrate was founded in 2018
* Gartner Cool Vendor 2021
* Significant Government investment in Istio and Envoy projects (FIPs verified distribution)
* Rich commercial customer base: MicroStrategy, WEX, FlexPort, GAP, Age of Learning, VISA, FICO, Freddie Mac, KPMG
* Government customers: USAF Platform One

**Brief Summary:**

Organizations today are typically straddling two types of infrastructure: brownfield (typically on virtualization platforms like VMware vSphere, in addition to mainframes, database appliances, network security boxes, etc.), and “greenfield” (containerized applications on Kubernetes that are heavily automated for continuous integration and delivery, usually deployed to a cloud). Businesses transitioning to microservices inevitably face three major hurdles: managing traffic flow, maintaining operational visibility, and enforcing consistent security policies across all services to create a strong software supply chain.

Service meshes solve these problems by weaving a uniform service management fabric across polyglot services using dynamically programmable layer-7 proxies that facilitates traffic management, consistent monitoring, authentication, and authorization. A service mesh such as Istio, set up in the right manner across brownfield and greenfield, is an ideal vehicle to accelerate brownfield transformation through safe and incremental migration of mission-critical legacy applications. But there are still several gaps when integrating open-source service mesh solutions into traditional enterprises composed of heterogeneous infrastructure. Some of the key gaps include the ability to seamlessly integrate VM workloads, multi-tenancy, and controlled access to configuration changes.

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