



FIPS-Certified Istio and Enterprise Support from the Founders and Maintainers of Istio and Envoy



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Overview

The first thing you need to know when using open source software in mission-critical applications is how you're going to get support and guidance if something goes wrong. For Istio, the most widely-deployed service mesh, Tetrade has you covered.

Tetrade Istio Subscription (TIS) delivers the confidence you need to use Istio and Envoy in production environments. TIS includes Tetrade Istio Distro (TID), Istio lifecycle management, and production Istio support.

Tetrade Istio Distro, the industry's most popular open source Istio distribution, is developed and supported by the creators and maintainers of Istio and Envoy. TID is a distribution of upstream Istio that provides vetted builds tested against all major cloud platforms. TID offers expanded Istio version support and maintenance beyond upstream Istio. It also includes lifecycle and change management tooling that makes Istio easy to install, manage, and upgrade. It is used by organizations worldwide to ensure compliance, avoid issues, and reduce downtime if issues do arise and is the surest way to get into production with enterprise-grade Istio, especially for mission-critical applications in regulatory environments.

Key Components and Features



1 Always be secure with hardened builds of 100% upstream Istio including patches and security hot-fixes.

Tetrade's Istio builds are hardened and performant, and are full distributions of upstream Istio. TID also adds key features you need to run Istio in production:

- Expanded version support for reduced operational overhead.
- Patches and security hot-fixes back-ported to N-4 versions of Istio.
- Custom builds of Istio for ARM64 and AMD64.



2 FIPS-verified builds of Istio suitable for FedRAMP.

Upstream Istio doesn't provide FIPS-compliant builds suitable for use in regulatory environments. Tetrade solves this problem by offering TID Istio and Envoy binaries that are compiled against FIPS-validated cryptographic modules and verified by an accredited testing laboratory to be compliant with programs like FedRAMP. TIS subscribers get access to Tetrade's FIPS-verified Istio builds and the corresponding certification of compliance.



3 Compatibility testing for the major cloud providers, including AWS, Azure, and GCP.

To ensure a seamless experience in the environments you actually use, Tetrade Istio Distro is extensively tested for performance and compatibility across multiple Kubernetes versions on AWS, Azure, and GCP.



4 Improved Istio installation and lifecycle management.

Tetrade's open source management tooling makes it easy to install, manage, and upgrade Istio. Tetrade Istio Distro comes with the getmesh CLI to quickly and reliably maintain installations, apply upgrades, and perform quick troubleshooting operations.

For Amazon EKS and EKS Anywhere users, Tetrade offers one-click Istio installation and support from the EKS Marketplace.



5 Expanded version support and maintenance.

TID Istio binaries have a longer support window than Istio community builds to reduce operational overhead. Tetrade supports and maintains the four most recent versions of Istio—twice that of the Istio community project—which translates to an extra six months of support and maintenance. TID significantly reduces the burden to stay up-to-date on community-supported versions, allowing you to manage updates on a predictable schedule.



6 Production Istio support and services.

Get Istio to production with the assurance that Tetrade's Istio experts are there when you need them. Tetrade's community support gives you access to the world's foremost service mesh experts to answer questions. Tetrade Istio Subscription provides 24/7 production support, dedicated service level agreements (SLAs), access to professional services, and more.

Feature Matrix

TID/TIS Features and Benefits	Open Source Istio	Tetrade Istio Distro	Tetrade Istio Subscription
OSS Compatibility			
Identical API surface as OSS – drop-in replacement w/o infra change	✓	✓	✓
Hardened and Tested Istio Builds			
Hardened, performant builds of 100% upstream Istio from Tetrade		✓	✓
Compatibility testing for all major Kubernetes environments including EKS, EKS Anywhere, GKE, AKE, and Openshift		✓	✓
Custom builds of Istio for AMD64, ARM64, and ARMv7		✓	✓
FIPS Compliance and Security			
SLA-backed patches, CVE backports for N-4 versions of Istio			✓
FIPS-verified Istio and Envoy builds suitable for FedRAMP w/certificate			✓
Premium Enterprise Support			
24/7 enterprise support from Tetrade's Istio experts for N-4 versions			✓
IP indemnity protection			✓
Access to professional services			✓
Production Tooling			
Istio monitoring dashboards and alerts			✓
Automatic service registry sync with Hashi Consul and AWS CloudMap			✓

We are on a mission to transform application networking and security for the modern, multi-cloud era.

Visit us at tetrade.io or email us at info@tetrade.io

