shabodi

Product Brief:
Shabodi NetAware Operator Platform

The Shabodi NetAware platform is a cloud-native solution empowering communications service providers (CSPs) to expose and monetize network capabilities through standardized APIs. **Shabodi NetAware Operator Platform powers transformative service innovation and accelerates time-to-market for CSPs while establishing the foundation for leadership in the network API economy.**

The value of network API exposure in the 5G era

The network API economy is projected to reach US$34B by 2030[1], and network API exposure is key to realizing this opportunity. Over 50 CSPs/operators, accounting for 65% of the global mobile market share, have already committed to exposing network capabilities through standardized APIs. This massive transformation requires CSPs to effectively expose, manage, and monetize network features like network slicing, edge computing, and service quality across 5G and non-5G networks.

Historically, integrating and exposing these capabilities has been complex and challenging. Different vendor implementations create fragmentation, while the lack of standardized exposure frameworks makes integration difficult. CSPs have struggled with complex backend orchestration systems and the challenge of building flexible services that APIs can effectively control.

The introduction of standards like GSMA Open Gateway, CAMARA, 3GPP CAPIF, TM Forum, MEF, and MEC, creates possibilities for API exposure, but these standards alone are only building blocks. **CSPs need a robust platform that allows them to quickly and effectively respond with differentiated solutions for enterprises.**

A foundation for leadership in the network API economy

1. Author, transform, translate, and publish APIs

2. Multi-vendor infrastructure support

3. Enterprise-grade security and easy scalability

4. Seamless enterprise IT and OT integration

5. Application, network, and OSS/BSS ecosystem enablement

[1] Network API monetisation forecast 2023–2030
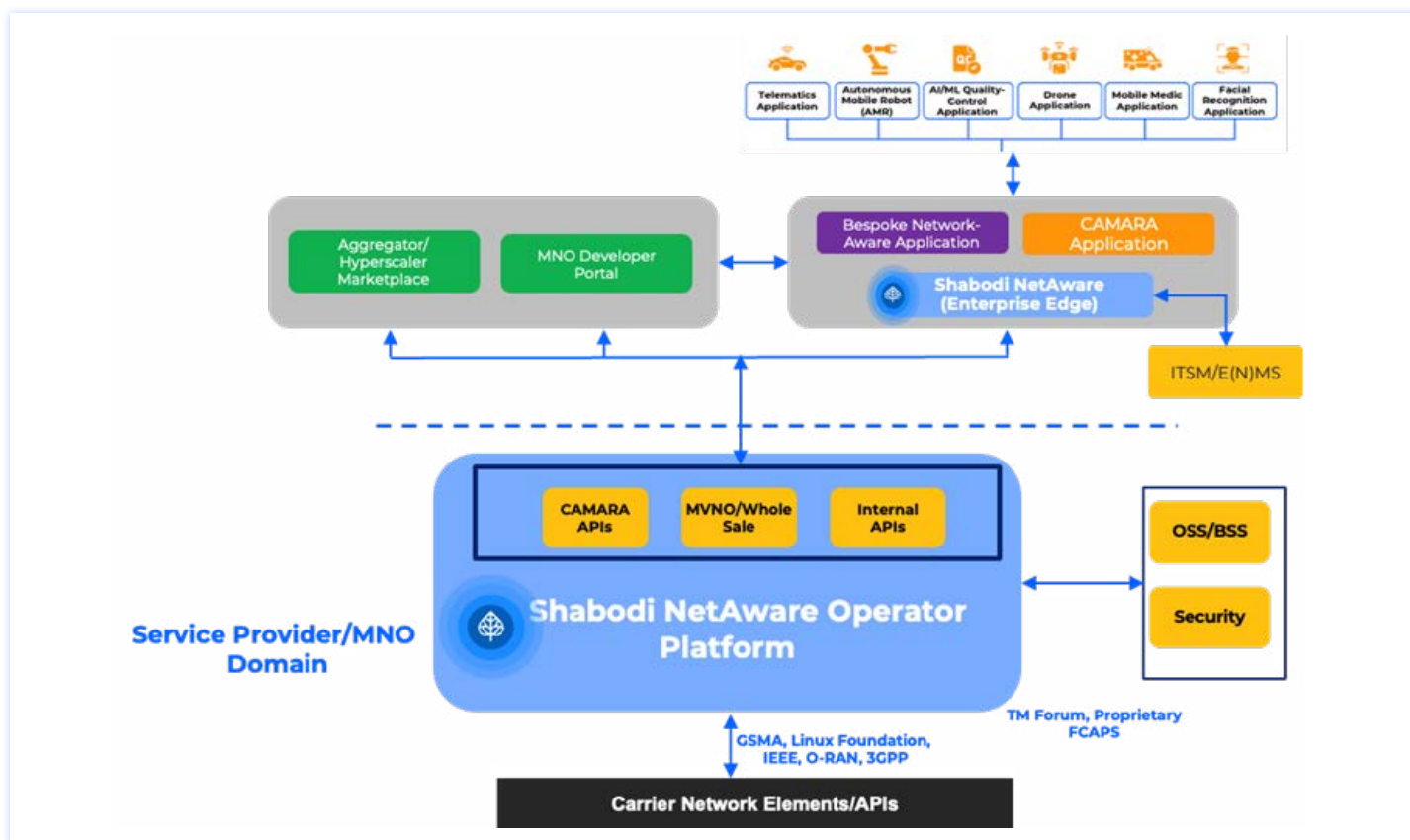
The Shabodi solution for network API exposure

Shabodi NetAware Operator Platform provides a robust network API exposure and management platform that addresses key operator challenges through its innovative capabilities and flexible architecture. The platform's patent-pending technology enables seamless exposure of network capabilities while ensuring standards compliance and vendor independence.

NetAware's core capabilities include

1 Patent-pending transformation and translation technology for multi-vendor network API integration

2 Standards-compliant API authoring and exposure (GSMA Open Gateway, CAMARA, 3GPP CAPIF, TM Forum, MEF, and MEC)

3 Multi-level usage-based metering and charging for API monetization

4 Cloud-native architecture supporting multiple deployment models

5 Highly reliable telco-grade security and scalability

The NetAware Operator Platform uniquely enables

Network Equipment Provider (NEP) agnostic implementation

Seamless mapping of consumption data to BSS/OSS systems

Multi-network support for public and private network use cases

Custom API authoring and publishing

Deployment models and integration

NetAware Operator Platform offers flexible deployment options to meet diverse operator needs, each designed to address specific business requirements while maintaining carrier-grade security and reliability. The platform's modular architecture ensures seamless integration with existing systems while providing a future-proof foundation for network API monetization.

Shabodi NetAware Operator Platform can accelerate CSP API monetization strategies in multiple ways

Enhanced CSP Services
Enables CSPs with the opportunity to sell specialized API packages for enterprise and MVNO use cases.

Leverage Programmable Network Investment
Shabodi NetAware can be directly integrated with CSP networks to enable standards-compliant and customized network API services.

Multi-Operator Platform
Enables API aggregation across multiple operators into a unified platform for service providers.

Grow Enterprise Footprint
Shabodi NetAware enables CSPs to grow their enterprise footprint by enabling seamless interworking between 5G network services and non-5G enterprise devices and applications.

Each model delivers

- Telco-grade security by design

- BSS/OSS integration for API exposure, billing, management and operations
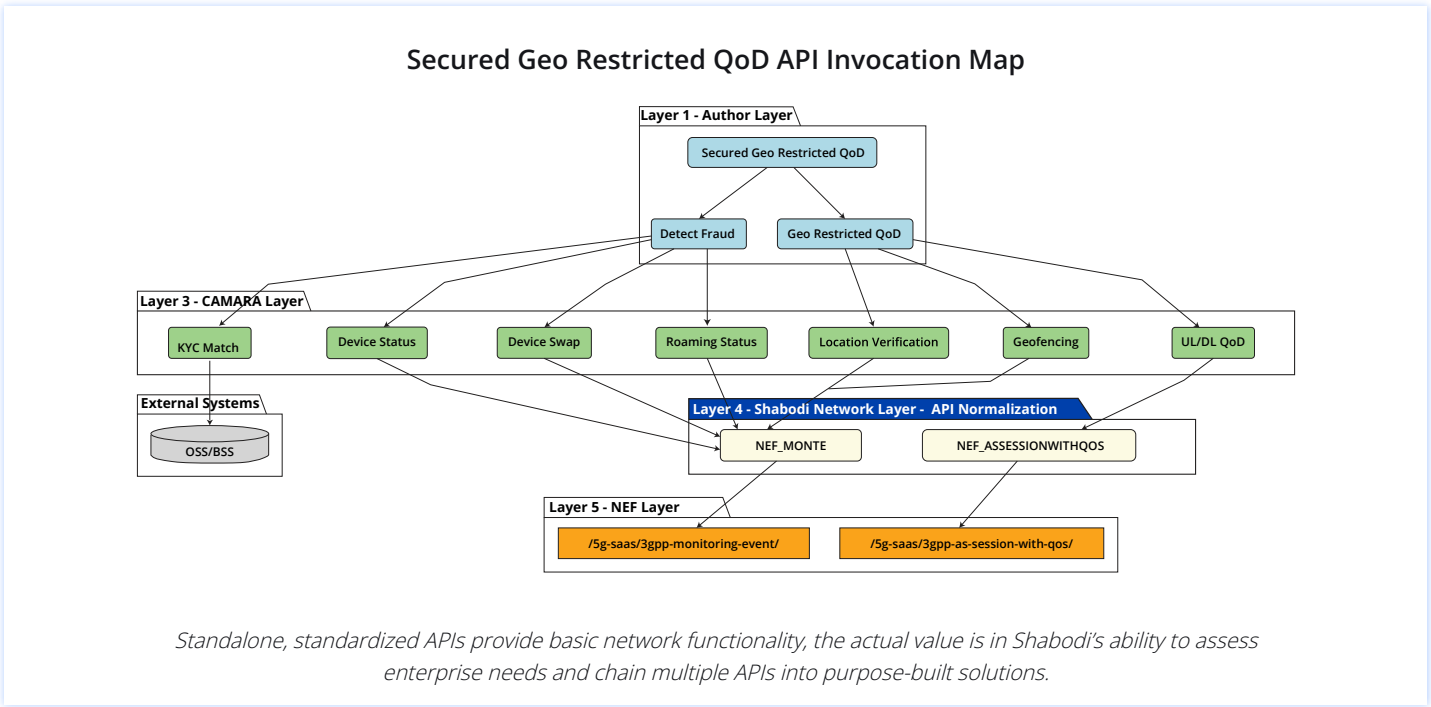
- Flexible cloud-ready deployments

NetAware Authored APIs

NetAware provides the ability for the CSPs and enterprises to "Author" APIs based on per-exposed transformations which are specific to the enterprise vertical or regional requirements. These APIs enable service providers to provide bespoke capabilities to the targeted clients and enhance adoption and monetization capabilities. Example of custom APIs include:

Shabodi NetAware Authored APIs		
Security and Fraud Prevention	**Quality of Service**	**Device Intelligence**
Detect Fraud	Geo-Restricted QoD	Sensor Device Insight
Prevent Fraud	Device-Restricted QoD	Device Density (Area)
Remote Device Verification	Live Streaming QoD	Device Location Status
	Roaming Quality Check	Density Based Location Assist
		Device Activity Insights

Secured Geo Restricted QoD API Invocation Map

Standalone, standardized APIs provide basic network functionality, the actual value is in Shabodi's ability to assess enterprise needs and chain multiple APIs into purpose-built solutions.

Shabodi transforms individual CAMARA and GSMA Open Gateway APIs into robust enterprise solutions by strategically combining and orchestrating them to address specific business challenges. While standalone, standardized APIs provide basic network functionality, the actual value is in Shabodi's ability to assess enterprise needs and chain multiple APIs into purpose-built solutions. **NetAware goes beyond mere API exposure or abstraction – it's the sophisticated alchemy of combining network APIs in ways that create powerful yet easy-to-implement solutions.**

Business benefits and value creation

Shabodi NetAware Operator Platform unlocks network API revenue streams while unifying control across multi-vendor networks, radically simplifying operations.

Concrete benefits include:

Reduction in integration complexity and operational costs through automated deployment and simplified management

Expansion into enterprise markets through the creation of new, customizable network API solutions and usage-based monetization

Vendor independence and standards compliance ensure long-term viability and investment protection

NetAware Operator Platform helps create sustainable competitive advantages in an increasingly dynamic market by enabling operators to transform their networks into programmable platforms. The platform's comprehensive capabilities and flexible architecture position operators for success in capturing the growing network API opportunity while ensuring seamless integration with existing systems and processes.

About

Shabodi is revolutionizing how applications interact with programmable networks through its innovative NetAware platform. By enabling applications to access and control network services through intuitive APIs, Shabodi transforms how enterprises utilize their network resources and how Communication Service Providers (CSPs) monetize their infrastructure investments. Shabodi's technology allows mission-critical applications to prioritize bandwidth, integrate location services, enhance security, and leverage network intelligence. With Shabodi's "code once, deploy everywhere" approach, applications maintain consistent performance regardless of the underlying network. For CSPs, NetAware provides a pathway to recoup 5G investments by offering high-value enterprise services, while enterprises gain precise control over network resources based on business priorities. Founded to unlock the full potential of programmable networks, Shabodi makes network intelligence directly accessible to the applications that need it most, creating measurable business value across multiple industries including manufacturing, public safety, transportation, and logistics. For more information, visit www.shabodi.com.

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