



AAA SERVER

# Carrier-Grade Network Authentication for Modern CSPs

DATASHEET



## Secure, Scale, and Optimize Network Access

Alepo's AAA Server delivers enterprise-grade network security and reliable authentication for millions of subscribers, scaling with your business while enabling rapid deployment of new revenue-generating services.

The platform offers carrier-grade performance on any infrastructure, supporting deployments on-premises, in virtualized (NFV) environments, or in the public or private cloud (containers or virtual machines).

**99.999%**  
Availability

**36,000+**  
TPS Capacity

**Sub-ms**  
Latency

## KEY CAPABILITIES

- ✓ **Dual-Stack Protocol Support:** RADIUS, Diameter, and TACACS+ on unified platform
- ✓ **5G, NFV & CNF Ready:** Cloud-native architecture with 3GPP R15/R16/R17 compliance
- ✓ **Vendor Neutral:** Standards-based compatibility eliminating lock-in
- ✓ **Multi-Service Support:** Supports all access technologies
- ✓ **Real-Time Policy:** Dynamic charging integration with zero leakage
- ✓ **Scalability:** Stateless, storing information in the centralized database cluster
- ✓ **Intelligent Operations:** Self-healing with centralized management
- ✓ **Usage Monitoring:** Supports the enforcement of fair use policies





## PERFORMANCE STANDARDS

### STANDARDS & PROTOCOLS

RADIUS, Diameter dual-stack  
TACACS+ network device security  
3GPP interfaces  
ETSI & CNCF compliance  
Rich RESTful APIs  
SNMP, REST, OAuth2, OIDC/SAML

### SUPPORTED NETWORKS

3G, 4G/LTE, and 5G mobile networks  
FTTx, xDSL & DOCSIS broadband  
Carrier Wi-Fi & 5G Fixed Wireless Access  
Private 5G and enterprise networks  
Large-scale M2M & IoT connectivity

### ADVANCED SECURITY & POLICY

Real-time dynamic quota & QoS  
Zero-leakage session management  
Intelligent noise reduction  
Fair usage policy (FUP) enforcement  
High-Performance Scripting Engine

### INTEGRATION & MANAGEMENT

Web-based admin portal  
Oracle, MariaDB & MySQL support  
SNMP, Prometheus & Grafana  
High Availability  
Geo-redundancy

### DEPLOYMENT OPTIONS

Cloud agnostic (Private Cloud, SaaS, Hybrid)  
Container ready (Docker/Kubernetes)  
NFV compliant  
Bare metal support

### SUPPORTED USE CASES

- Broadband data services (FTTx, xDSL, DOCSIS)
- Mobile core integration & 5G Fixed Wireless Access
- Carrier & enterprise Wi-Fi (Roaming, VoWiFi, Hotspots)
- Large-scale M2M & IoT device authentication

## BUSINESS BENEFITS

### Alepo AAA Server: Secure Access, Simplified Operations



#### OPERATIONAL EXCELLENCE

Self-healing architecture with 99.999% availability reduces manual intervention while centralized management streamlines operations.



#### REVENUE ENABLEMENT

Real-time integration with charging systems enables dynamic service offerings and accelerates deployment from months to days.



#### COST OPTIMIZATION

Consolidate multiple AAA systems onto one platform with flexible deployment options that optimize infrastructure costs.



#### ENHANCED SECURITY

Advanced security features and audit trails protect against attacks while maintaining performance and compliance.

“Alepo’s AAA has enabled Wind Telecom to streamline processes by introducing automation at every level, and we’re already reaping the benefits of their modern and advanced solution.”

— Director Network Operations,  
Wind Telecom



CONTACT US  
[sales@alepo.com](mailto:sales@alepo.com)

LEARN MORE  
[www.alepo.com](http://www.alepo.com)

STAY CONNECTED  
[linkedin.com/company/alepo](https://linkedin.com/company/alepo)