ALEPO

Unified Policy Management for 4G and 5G Networks

DATASHEET

Intelligent Policy Control That Drives Revenue

Alepo's Converged Policy Control combines PCRF and 5G PCF capabilities in a single platform, enabling Communication Service Providers to manage traffic across all network generations while rapidly deploying new service offerings and monetization strategies.

ADVANCED SERVICE CONTROL

POLICY FRAMEWORK

- High-performance rule evaluation and dynamic enforcement
- Custom time and volume-based thresholds for subscriber usage metrics
- Priority-based arrangement of subscriber categories with precise visualization
- Web based Portal for policy management and operations

5G USE CASES

- Enhanced mobile broadband (eMBB), ultra-reliable low latency communication
- Mobile Internet of Things (mIoT) and user equipment (UE) policy management
- Dynamic network slicing with policies for enterprise and premium services
- Real-time policy decisions based on applications, roaming, mobility management

NETWORK FUNCTION INTEGRATION

- PCF+PCRF combo node with N5, N7, N15, N36 interface support
- NRF interworking for service discovery and registration management
- IMS integration supporting VoLTE and VoNR voice services
- Support for MCPTT and Multimedia Priority Services
- Seamless session continuity with inter-RAT handover between 4G/5G networks

TECHNICAL SPECIFICATIONS

Performance
50,000+ Policy Decisions/sec
Sub-10ms Processing
1000+ Network Slices
Millions of Sessions

Standards & Interfaces
3GPP Compliant (Rel. 16+ for PCF, Rel. 11+ for PCRF)
5G SBI (N5, N7, N15) via HTTP/2
4G Diameter (Gx, Rx, Sy)
Converged 4G/5G Interworking

Deployment
CaaS and PaaS Agnostic
Kubernetes-Orchestrated
Multi-Cloud: AWS, GCP, Azure
Containerized and VM Virtualized

BUSINESS BENEFITS
Transform Your Policy Management

ACCELERATED SERVICE LAUNCH
Deploy new offerings like turbo boosts, sponsored data, and premium plans, with flexible policy frameworks.

REVENUE GROWTH
Enable dynamic service plans, time-based pricing, and partnership monetization to maximize revenue across 4G and 5G networks.

NETWORK EFFICIENCY
Intelligently manage traffic flows with sub-10ms processing, reducing infrastructure costs and improving utilization.

EDGE DEPLOYMENT
Low-footprint design supports both centralized core and edge deployment for private 5G networks and enterprise use cases.

KEY FEATURES

Unified 4G+5G Control
Seamlessly manage PCRF and PCF on a single platform, simplifying operations and ensuring a smooth, future-proof migration from 4G to 5G.

Drag & Drop Service Creation
Design and launch complex policies in minutes with an intuitive, code-free visual builder, slashing time-to-market for new services.

Guaranteed Quality for Critical Services
Prioritize and manage bandwidth for high-value services and emergency calls, ensuring exceptional quality and reliability.

Data Monetization Engine
Unlock new revenue streams by creating offers, tiered services, and dynamic charging rules for data, and applications.

Cloud-Native Agility
Deploy on any public, private, or hybrid cloud with a resilient, container-based architecture that provides automated scaling and operational freedom.

Carrier-Grade Reliability
Ensure uninterrupted service with built-in geo-redundancy and automated failover, delivering 99.999% availability for mission-critical networks.

ALEPO

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