



SUBSCRIBER DATA MANAGEMENT

5G-Ready Subscriber Data Platform for Modern CSPs

DATA SHEET



Accelerate Your 5G Evolution with Unified Data Management

Alepo's Subscriber Data Management (SDM) platform provides a unified subscriber data platform that connects 4G and 5G networks, helping Communication Service Providers modernize their infrastructure and launch new revenue-generating services. Our solution eliminates the complexity of managing separate databases while delivering the scalability needed for next-generation network capabilities.

WHY CHOOSE ALEPO SDM?

CONVERGED 4G+5G PLATFORM

Single platform supporting legacy 4G services and next-generation 5G capabilities with seamless inter-domain mobility and session continuity through integrated MME interworking.

STANDARDS COMPLIANCE

3GPP Release 15/16/17 compliant with vendor-agnostic HTTP/REST APIs ensuring multi-vendor network interoperability and future-proof investments.

CLOUD-NATIVE ARCHITECTURE

Microservices-based SBA design with container deployment flexibility across public, private, and hybrid cloud environments featuring automatic scaling and NoSQL database performance.

ENTERPRISE READY

Scalable from private 5G deployments to macro-network environments supporting millions of subscribers with carrier-grade reliability and geo-redundancy.

“With Alepo as our technology partner, we are now able to deliver unprecedented quality and value of services to our subscribers based on their needs and lifestyles in real time.”

— CTO at Green Com S.A.

BUSINESS BENEFITS

Accelerate Your 5G Transformation



SEAMLESS 5G MIGRATION

Unified platform eliminates 4G/5G infrastructure complexity while ensuring service continuity and reducing migration risks.



REVENUE ENABLEMENT

Advanced 5G services including network slicing, enterprise IoT, mMTC, and URLLC create new monetization opportunities.



PARTNERSHIP OPPORTUNITIES

Open architecture enables collaborations with third-party service providers for innovative 5G use cases.



OPERATIONAL EFFICIENCY

Centralized data management with automated scaling and multi-site deployment reduces CAPEX/OPEX while minimizing operational complexity.



DEPLOYMENT FLEXIBILITY

Available across public cloud, private cloud, edge computing for private 5G, and hybrid multi-site deployments with comprehensive geo-redundancy support.

CORE NETWORK FUNCTIONS

5G CORE COMPONENTS

- AUSF for 5G network authentication
- Unified Data Management (UDM+HSS) with 4G/5G convergence
- Unified Data Repository with high-performance NoSQL storage
- Unstructured Data Storage Function (UDSF) for session context management

MANAGEMENT & OPS

- Self-Service Portal with eSIM lifecycle management
- SDM Agent Portal for SIM batch management and service configuration
- Element Management System (EMS) with NETCONF/YANG integration
- Comprehensive RBAC with privacy protection (SUCI/SUPI conversion)

VOICE & MULTIMEDIA SERVICES

- IMS HSS supporting VoNR, VoLTE, and multimedia telephony services
- Advanced caller id, call diversion, and alert tone capabilities
- Dynamic service authorization for operator-specific IMS services



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