

Unified Management Platform (UMP)

**Carrier-Grade Hybrid CPE Management
for Tier-1 and Tier-2 Operators**



Value Proposition

Future-proof your broadband operations and eliminate hardware vendor lock-in. Unified Management Platform (UMP) is a highly scalable, turnkey management environment deployed on your infrastructure. By acting as both a TR-069 Auto Configuration Server (ACS)

and a TR-369 (USP) Controller, UMP decouples service delivery from hardware limitations. It unifies your legacy and next-generation CPE fleets into a single operational plane, drastically reducing OPEX and accelerating time-to-market for new broadband services.

Why AVSystem?

Trusted by the world's leading telecommunications providers to manage critical infrastructure.

50M+

Devices managed globally, proven to support 30M+ CPEs concurrently.

300+

Operator customers, with 80% being Tier-1 Telcos.

80%

Of our team are in-house software engineers — no outsourced development.

ISO 27001

And TSA certified — data security and reliability at every layer.

The Challenge

Modern networks connect millions of devices across fragmented, vendor-locked proprietary systems. This creates operational silos, inconsistent Quality of Experience (QoE), and high support costs, making the transition to modern standards like TR-369 (USP) a high-risk, complex IT project.

The Solution: A True Hybrid Engine

UMP consolidates provisioning, configuration, monitoring, and diagnostics into a single, on-premises or customer-cloud environment. Through a unique translation engine and digital twin technology, operators gain full lifecycle control of their device fleets regardless of vendor, access technology, or management protocol (CWMP, USP, SNMP, SSH).

Business Outcomes

- ✔ **Operational Efficiency:** automate zero-touch provisioning and mass firmware campaigns to cut truck rolls and manual work, driving OPEX reduction.
- ✔ **Faster Time-to-Market:** deploy and activate new services in minutes across heterogeneous fleets, without vendor-specific integrations.
- ✔ **Improved Customer Satisfaction:** proactively detect anomalies and resolve issues remotely before they escalate to call centers.
- ✔ **Absolute Data Governance:** keep complete control over your data — deployed natively on bare metal, VMs, or private/public cloud (AWS, GCP).

Strategic Capabilities & Technology

Hybrid Protocol Hub	Manage CWMP (TR-069) and USP (TR-369) devices simultaneously, bridging the generational gap in one infrastructure.
Digital Twin	A live, synchronized model of every CPE for instant network health visualization and safer configuration simulations.
Northbound Integrations	REST and legacy SOAP APIs, plus Kafka streaming for OSS/BSS, CRM, and Data Lake integration.
Carrier-Grade Architecture	Scalable, cloud-native, microservices-based; high availability and redundancy.

About AVSystem

AVSystem is a global leader in telecommunications software, trusted by over 300 operators in 60+ countries to securely manage more than 50 million connected devices. We equip broadband providers with an end-to-end operations and assurance portfolio, covering zero-touch service activation,

carrier-grade IP address management, multi-vendor device lifecycle governance, network service assurance, and subscriber-facing Wi-Fi experience management. Whether serving Tier-1 telcos or agile regional ISPs, AVSystem delivers the automation and open-standards technology required to scale modern broadband networks.

Learn more about CSP product portfolio