

Hybrid CPE Management Platform

A single operational plane for any device, protocol, or access technology, available in two deployment models



Value Proposition

Modern telecommunications networks require managing millions of multi-vendor devices throughout their full lifecycle, from activation to retirement. Our hybrid platform eliminates technological silos by serving as both a TR-069

Auto Configuration Server (ACS) and a TR-369 (USP) Controller. Whether your IT strategy demands complete infrastructure independence or cloud agility, AVSystem provides a solution aligned with your technical requirements.

Core Technological Capabilities

Regardless of the chosen deployment model, the Hybrid CPE Management Platform delivers a powerful management engine:

- ✔ **True Protocol Hybrid:** Native, concurrent support for CWMP (TR-069) and User Services Platform (TR-369) within a single interface.
- ✔ **No Vendor Lock-In:** An abstract data model (Digital Twin) and a unique translation system (Dialects) enable seamless management of any manufacturer's hardware.
- ✔ **Advanced Automation:** Automate zero-touch provisioning, secure mass firmware upgrades, and proactive diagnostics.
- ✔ **Multi-Access Technology Support:** Manage devices operating across fiber (GPON, XGS-PON), copper (xDSL), and wireless (LTE, 5G, FWA) networks.
- ✔ **Carrier-Grade Security:** Full ISO 27001 certification, TLS encryption, and granular Role-Based Access Control (RBAC).

Deployment Model That Fits Your Strategy

Feature	Unified Management Platform (UMP)	Cloud ACS (SaaS)
Delivery Model	Turnkey deployment (On-Premises / Private Cloud).	Fully managed cloud SaaS.
Typical Target Profile	Operators with strict compliance requirements and rigorous RFP guidelines.	Agile operators and mid-sized ISPs looking for a fast launch.
Operational Approach	Custom architecture tailored to the operator's specific environment.	Top-class, out-of-the-box device management platform, ready to deploy from day one.
Infrastructure	Installed on bare metal servers, VMs, or customer cloud (e.g., AWS, GCP).	Zero infrastructure overhead; AVSystem hosts all components.
Maintenance & Updates	Long-Term Support (LTS) releases twice a year; full customer control over maintenance windows.	Continuous, automated feature updates and security patches managed by AVSystem.
Commercial Model	Per-device licensing, scaled to the deployment size.	Pay-as-you-grow subscription model.
Customization & Integration	Extensive integration flexibility (REST, Kafka streaming) and runtime scripting (Dolang) adapted to specific business logic.	Standardized API-first (REST) design for easy integration with existing CRM and billing systems.
Support	Premium 24/7 SLA-backed support, dedicated professional services, and on-site training.	Guided onboarding (Customer Success) and ongoing technical support.

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.

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