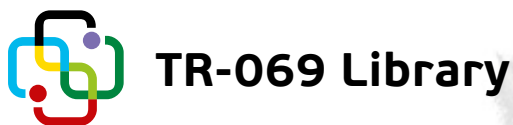


TR-069 Library – LibCWMP

Smoothly give in to perfection

BEST WAY TO IMPLEMENT TR-069

More and more telecommunication companies and service providers want to benefit from the advantages of managing their devices through **TR-069 protocol**. No wonder – it makes their lives much easier. This situation creates a challenge for **device manufacturers** who want to face current needs of their clients. As TR-069 is only loosely described by **Broadband Forum** specifications, there are different ways of implementing the protocol. Our **TR-069 Library, LibCWMP**, with the **smallest memory footprint**, flawlessly usable API and **excellent support** – is the **best choice** available for any type of equipment.



TR-069 Library

Smoothly
give in to
perfection

DESIGNED TO FIT EVERY DEVICE PERFECTLY

Smartly designed by talented developers, **LibCWMP** can support different types of devices without the need to implement any other library. What's more, it integrates smoothly with **any type of operating system**. The list of supported devices includes **wired and wireless modems and gateways, access points, routers, VoIP ATA's, IP Phones, VPN gateways, PBX devices, monitoring equipment...** and many more!

FULL SUPPORT FOR INTEGRATION

AVSystem provides **full and extensive support** during the **integration and maintenance** of our CWMP Library. Our Certification process ensures final product is **strictly compliant** with TR-069 and accompanying standards.



"TR-069 is a current industry standard for large scale network management, diagnostics and provisioning. It enables rapid service delivery and efficient remote device configuration. I believe that support for this standard is mandatory for present and future generations of networking devices."

Stawomir Wolf, CEO, AVSystem

KEY FEATURES:

- The **lowest possible memory requirements** (both of RAM and Flash)
- Low CPU utilization
- **Flexibility of design** to make it fit practically **any device**
- Clear and robust **two-level API**
- Abstraction layers for OS-related operations
- Built-in **STUN client**
- Automatic **testing environment** in Python
- Modularity and native support for **advanced TR-069 mechanisms** (diagnostics, notifications, periodic informs etc.)
- **Well-prepared documentation** with how-to's and examples

TR-069 Library-LibCWMP

Smoothly give in to perfection

THE BUY VS. MAKE DECISION

Time is money, and getting to the market 3, 6 or 12 months sooner is a tremendous strategic and financial advantage. Finally it may **increase your ROI up to 50 %** in product lifetime. Licensing the **TR-069 client LibCWMP** from AVSystem means fewer in-house resources for research and development plus interoperability testing against ACS servers from different vendors. Additionally AVSystem secures the **latest updates and upgrades** of the TR-069 client, thus CPE manufacturer may focus on other components of its products.

There is currently no product which could compete with LibCWMP in memory usage or data parsing and processing times. Scope-oriented parsers, processors written from scratch, well-designed abstraction levels and tooling allow our product to operate in about 30kB (thirty kilobytes) of memory.

SUPPORT FOR ANDROID

Our offer also includes **CWMPDroid TR-069 Library** for **Android-** or **Java-enabled** devices. This Java-targeted product is based on years of on-hand experience with device management and TR-069 protocol which guarantees quality and efficiency. **CWMPDroid** can support any data model and can be very quickly integrated thanks to easy-to-use API. It's the best solution to keep up with present standards of mobile networking.

OUR CLIENTS



Language	C
Compilation standard	C89
Architectures	X86, ARM, MiPS, others
Flash needed (dynamic linking, all modules, SSL incl.)	95kB
Flash needed (static linking, all modules, SSL incl.)	135kB
Memory usage	30kB (Heap: 24kB, Stack: 6kB)
Thread Support	Yes, 3 threads by default, support for single-thread systems
Additional libraries needed	NONE
GPL Code	NONE
Support for SSL	YES, OpenSSL + API for other libraries
IPv6 Support	Yes
TR-111 Support	Yes, fully built-in
Support for TR-069 methods	All methods supported
Supported data models	Any data model, dedicated tooling for data-model creation included, full support for vendor specific parameters
Transfer support	Built-in transfer support for HTTP, HTTPS, FTP
Diagnostics and TR-143	Built-in support for IPPing, Traceroute, Download and Upload diagnostics

"We've selected AVSystem's TR-069 Library because of its ultimate small flash & RAM memory footprint. Well done!"

Timothy Cardoza, AAstra Corporation, USA

Contact us for more information and free demo!

AVSystem, Friedleina 4, 30-009 Kraków, Poland/EU

E-mail: avsystem@avsystem.com

Web: www.avsystem.com