



TR-069 SOLUTION



“Telco operators are realizing the growing potential of advanced broadband services. Provisioning and managing advanced services remotely, while reducing support and customer churn is the key challenge in the Industry.”



Overview

TR-069, the Broadband Forum's Consumer Premises Equipment(CPE) WAN management protocol, is now the de-facto standard for remote CPE management. TR-069 provides standardized remote device management for residential gateways and other devices. It provides the necessary framework for efficient, scalable and secure provisioning to support a wide variety of broadband services.

ALLEN Calsoft Labs offers a TR-069 Client based CPE WAN Management Protocol, a software component that can be easily integrated with devices like residential gateways, Set-top boxes, Femtocell devices and other home networking devices to make the devices remotely manageable from an Auto Configuration Server.

Feature Set

- Auto Configuration of CPE during initial connection
- ACS initiated dynamic provisioning of CPE
- Status and Performance monitoring of CPE parameters
- Diagnostics test and reporting by CPE
- Software/Firmware image download and upgrade
- Transport level security through SSL/TLS
- Authentication with MD5 digest
- Configurable parameter change notification
- Vendor specific parameter support
- Data models support - IGD, STB, VoIP, NAS, Femtocell
- Data model extensions
- Small memory footprint and thread use
- Less Bootup time
- Complete coverage of mandatory RPCs
- Support on Linux/OpenWRT

Features Available in Release 1.0 and Roadmap

Features	1.0	1.5	2.0
TR-069 Client			
Auto Configuration	Yes		
Dynamic Provisioning	Yes		
Status & Performance Monitoring	Yes		
Diagnostics & Troubleshooting	Yes		
Software/Firmware Upgrade	Yes		
SSL/TLS Security	Yes		
MD5 Digest Authentication	Yes		
Parameter Change Notification	Yes		
Generic Data Model Extensions (TR-106)	Yes		
Linux /OpenWRT Platform support	Yes		
IGD Data Model Support (TR-098/TR-106)	Yes		
Set-top Box Support (TR-135) Extension			
TR-135 Trouble Management		Yes	
TR-135 Configuration		Yes	
TR-135 Fault Management		Yes	
TR-135 Performance Management		Yes	
LAN devices Support (TR-111) Extension			Yes
VoIP, NAS support Extensions			Yes
Femtocell Support (TR-196) Extension			Yes

Deliverables

- TR-069 Client component
- TR-135 extension (optional)
- Integration guide
- Administrator guide
- Customization and Integration Services

Key Benefits

- Can be easily integrated, resulting in reduced time to market.
- Easily portable to different platforms and operating systems.
- Security features for authentication and confidentiality.
- Data Model Extensions designed for specific devices with flexibility for adding new devices and combining services
- Developed in C for portability and best performance.

ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

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