TR-069 CPE WAN Management Protocol

TR-069 is the industry standard CPE WAN Management Protocol defined by the Broadband Forum and has more than 350 million installations worldwide. Intended for communication between a CPE and Auto-Configuration Server (ACS). The CPE WAN Management Protocol defines a mechanism that encompasses secure auto-configuration of a CPE, and also incorporates other CPE management functions into a common framework.

TR-069 specifies the generic requirements of the management protocol methods which can be applied to any TR-069 CPE. Other documents specify the managed objects, or data models, for specific types of devices or services.

Functional Components

The CPE WAN Management Protocol is intended to support a variety of functionalities to manage a collection of CPE, including the following primary capabilities:

- Auto-configuration and dynamic service provisioning
- Software/ firmware image management
- Software module management
- Status and performance monitoring
- Diagnostics

TR-069 Certification Program Overview

The program tests product functionality certify that they are compliant to TR-069 protocol specifications.

Requirements documents associated with these specifications:

- ATP-069: TR-069 Abstract Test Plan
- TR-069: TR-069 Conformance Test Plan- (members only access).

Companies with BBF 069 certification include: Actiontec, Broadcom, Cable, D-Link, Greenwave systems, Huawei Technologies, Intel, Sercomm and ZTE Corporation.


TR-069 and User Services Platform in Context

The Broadband Forum is the defining body for today’s Broadband Technologies and Software. The many areas and projects spanned include: TR-069 CPE WAN Management Protocol (highlighted here), Broadband user services, Broadband assured IP services, fiber access networks, IP address management.

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